PRELIMINARY REPORT OF 060505

last update on Fri May 5 16:34:19 GMT 2006

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1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P), global monitoring products (ASA_GM1_1P), which are the available few hours after the acquisition, on the browse (BP) products and
on the Module Stepping (MS) product.

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period.

2.2 - Auxiliary files

Summary of the auxiliary files used from 2006-05-04 00:00:00 to 2006-05-05 16:34:19

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	37	65	5	0	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	37	65	5	0	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	37	65	5	0	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	37	65	5	0	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	40	63	21	19	70
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	40	63	21	19	70
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	40	63	21	19	70
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	40	63	21	19	70

2.3 - Browse Visual Inspection

2.4 - Data Analysis

-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

3 - Module Stepping Mode

No anomalies observed on available MS products:

Polarisation	Start Time
V	20060503 043733
H	20060504 040556

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference

MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS

4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1

4.2 - Cyclic statistics

4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.975429	0.011686	0.013218
7	P1	-3.049138	0.011324	-0.042077
11	P1	-4.085423	0.016052	-0.041415
15	P1	-6.099155	0.012816	-0.031415
19	P1	-3.310237	0.007388	0.026987
22	P1	-4.516226	0.011345	-0.044972
26	P1	-4.052119	0.019820	0.122446
30	P1	-5.736806	0.022059	0.007456
3	P1	-16.703293	0.311851	0.131464
7	P1	-16.937408	0.147548	-0.167094
11	P1	-16.695024	0.326394	-0.429481
15	P1	-13.090424	0.130061	-0.188627
19	P1	-14.121699	0.048622	-0.231926
22	P1	-16.007524	0.485189	-0.400068
26	P1	-15.492825	0.266265	0.502693
30	P1	-16.741854	0.298456	-0.442155

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.300859	0.086555	0.068849
7	P2	-22.208752	0.101083	0.100708
11	P2	-16.055351	0.111457	0.177373
15	P2	-7.164544	0.097567	-0.007375
19	P2	-9.149119	0.090297	-0.029698
22	P2	-18.041443	0.089286	-0.117183
26	P2	-16.297760	0.094892	-0.093557
30	P2	-19.608810	0.088160	0.002811

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.190112	0.004631	-0.001696
7	P3	-8.190112	0.004631	-0.001696
11	P3	-8.190112	0.004631	-0.001696
15	P3	-8.190112	0.004631	-0.001696
19	P3	-8.190112	0.004631	-0.001696
22	P3	-8.190112	0.004631	-0.001696
26	P3	-8.190138	0.004633	-0.001721
30	P3	-8.190138	0.004633	-0.001721

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.748484	0.029381	0.009501
7	P1	-2.674232	0.119484	0.089643
11	P1	-2.888868	0.035538	0.075141
15	P1	-3.520537	0.031869	0.057986
19	P1	-3.381924	0.013349	-0.011278
22	P1	-5.128547	0.023327	0.074439
26	P1	-5.813721	0.025068	-0.036227
30	P1	-5.177550	0.049178	0.001906
3	P1	-11.591478	0.114228	-0.021601
7	P1	-9.977554	0.179732	0.031331
11	P1	-10.236118	0.088790	0.103438
15	P1	-10.704858	0.136569	0.151466
19	P1	-15.443771	0.089710	-0.082168
22	P1	-20.631283	1.269138	-0.519270
26	P1	-16.370506	0.410658	-0.228743
30	P1	-18.273603	0.491410	0.361939

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.966158	0.071515	0.069835
7	P2	-22.508139	0.191058	-0.084790
11	P2	-11.194202	0.052124	-0.009417
15	P2	-4.861995	0.043050	-0.066701
19	P2	-6.857382	0.050989	-0.041125
22	P2	-8.152217	0.056877	-0.059156
26	P2	-24.039793	0.138807	-0.090636
30	P2	-22.049358	0.093938	-0.003455

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.024391	0.003727	-0.004888
7	P3	-8.024277	0.003747	-0.004716
11	P3	-8.024497	0.003712	-0.004137
15	P3	-8.024336	0.003735	-0.004659
19	P3	-8.024533	0.003737	-0.004533
22	P3	-8.024491	0.003736	-0.004455
26	P3	-8.024394	0.003726	-0.003825
30	P3	-8.024401	0.003737	-0.004582

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

☒

4.3.2 - Evolution for GM1

☒

5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000550892
	stdev	1.81084e-07
MEAN Q	mean	0.000520651
	stdev	2.23963e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136664
	stdev	0.00116228
STDEV Q	mean	0.137023
	stdev	0.00117986

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006050[345]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20060505_004234_000001742047_00245_21842_4113.N1	1	0
ASA_WSM_1PNPDE20060503_183927_000002262047_00228_21825_7761.N1	0	11
ASA_WSM_1PNPDE20060504_180901_000000862047_00242_21839_7952.N1	0	31
ASA_WSM_1PNPDE20060504_230834_000001222047_00245_21842_8010.N1	0	31

7 - Doppler Analysis

Preliminary report.The data is not yet controled

7.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)
Acsending
Descending

7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler
Acsending
Descending

7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX

7.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)
Acsending

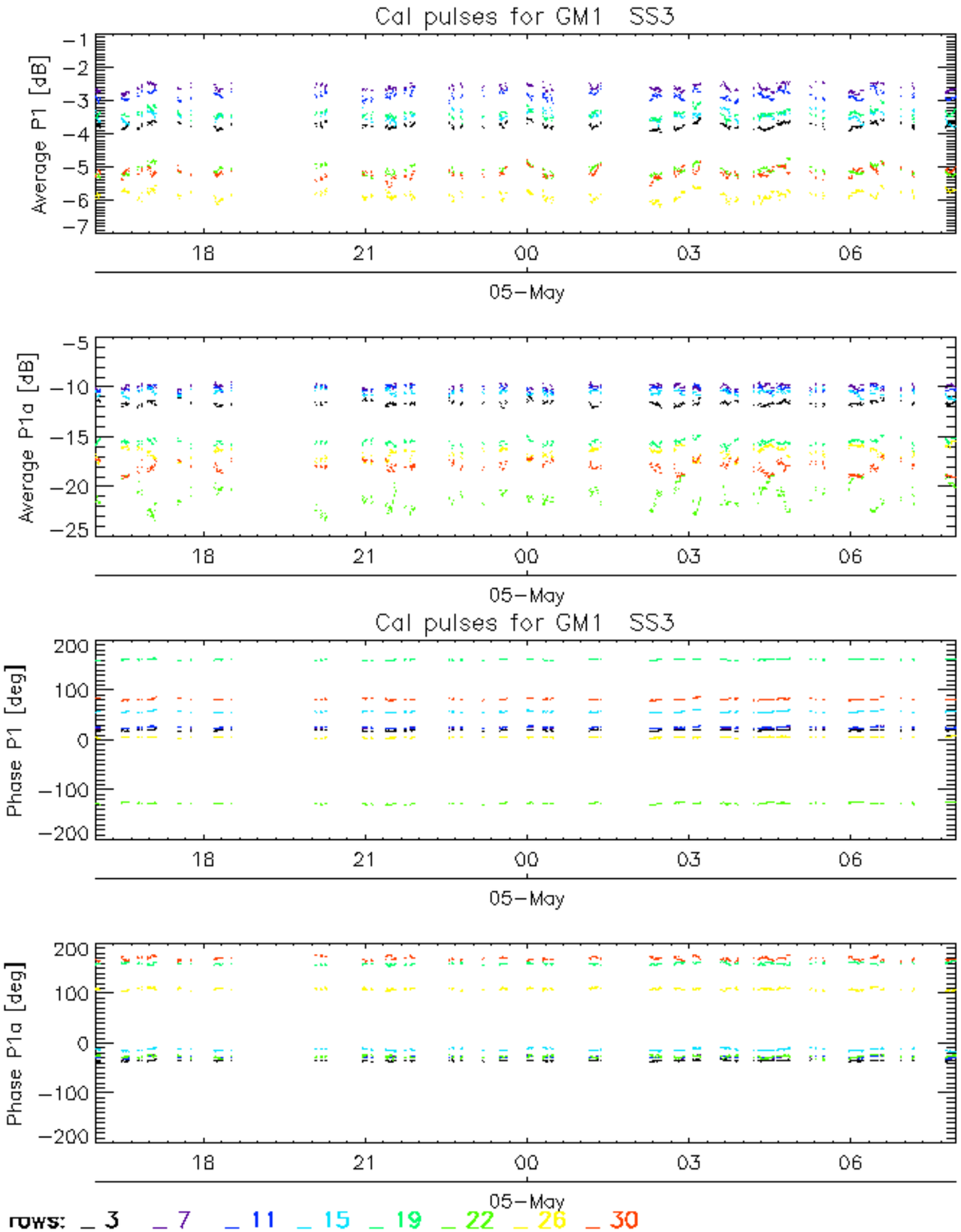
Descending

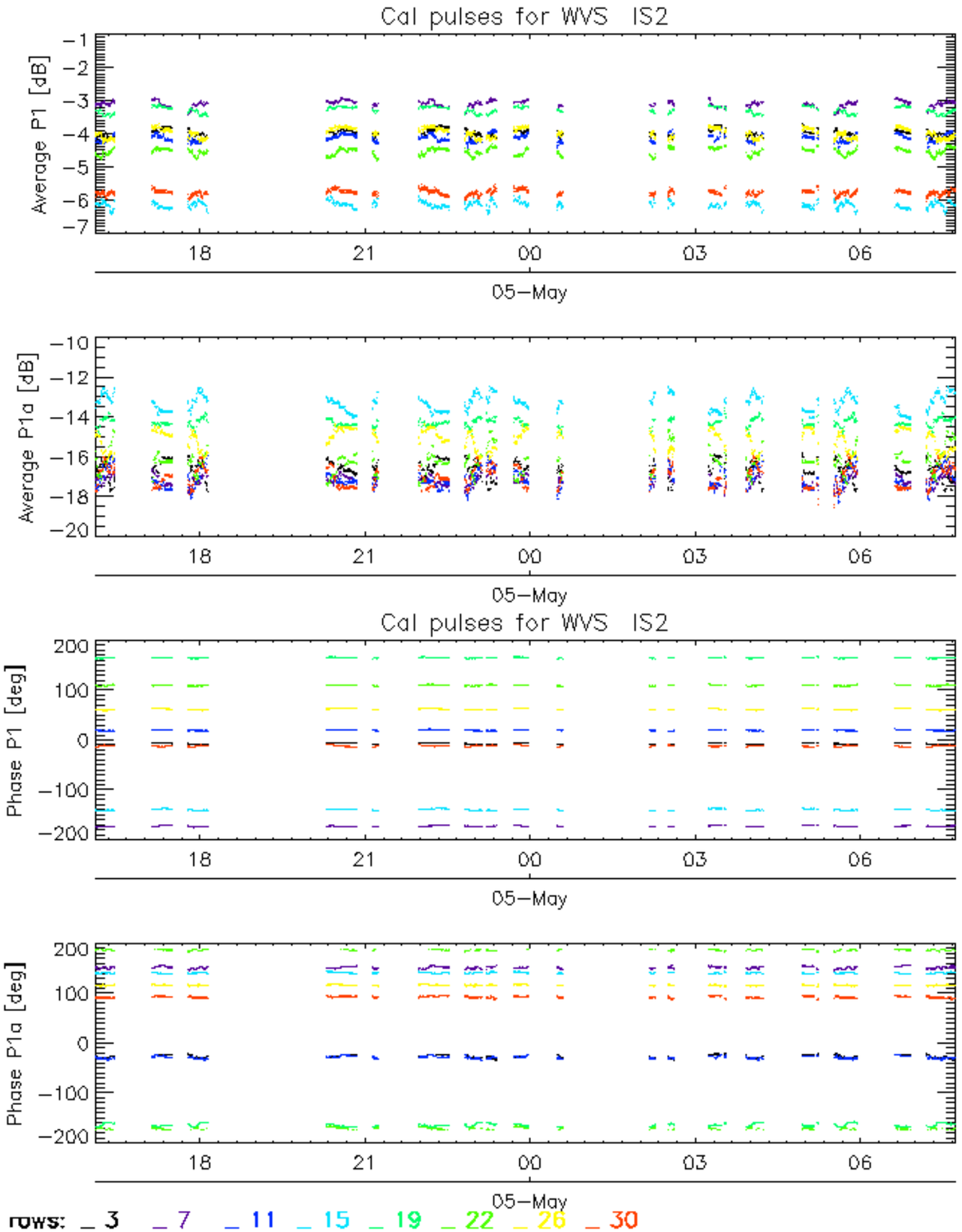
7.5 - Absolute Doppler for GM1

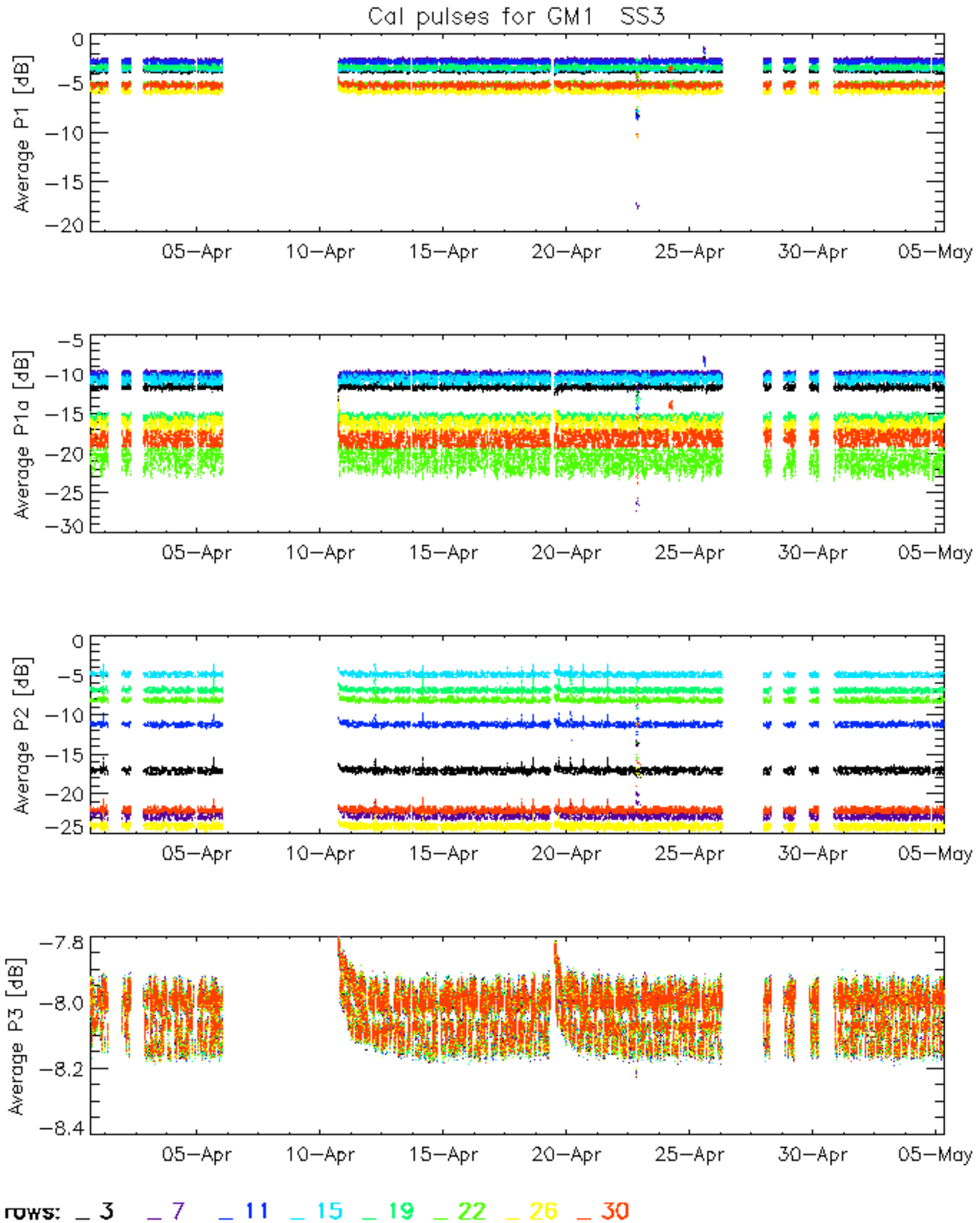
Evolution of Absolute Doppler
Acsending
Descending

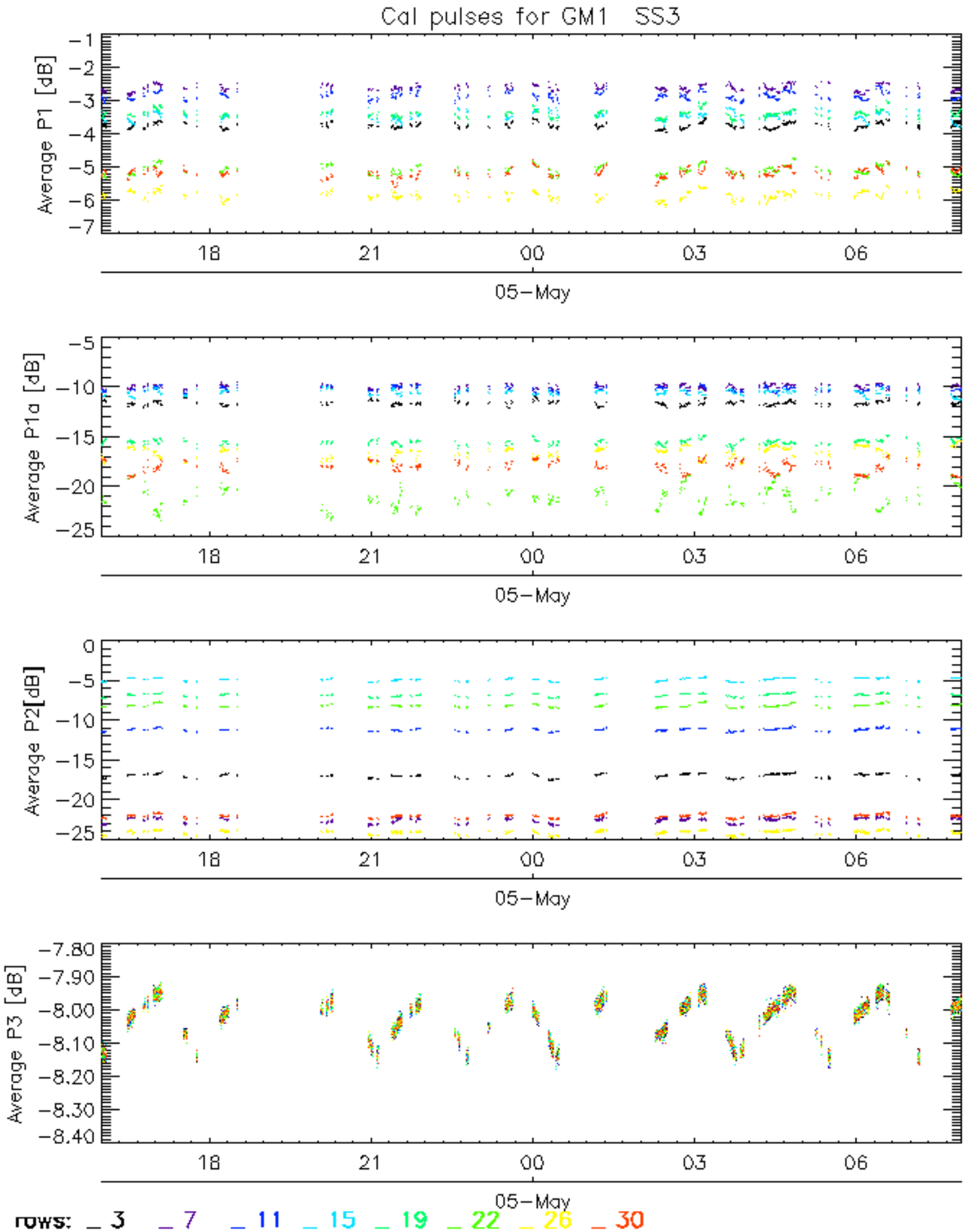
7.6 - Doppler evolution versus ANX for GM1

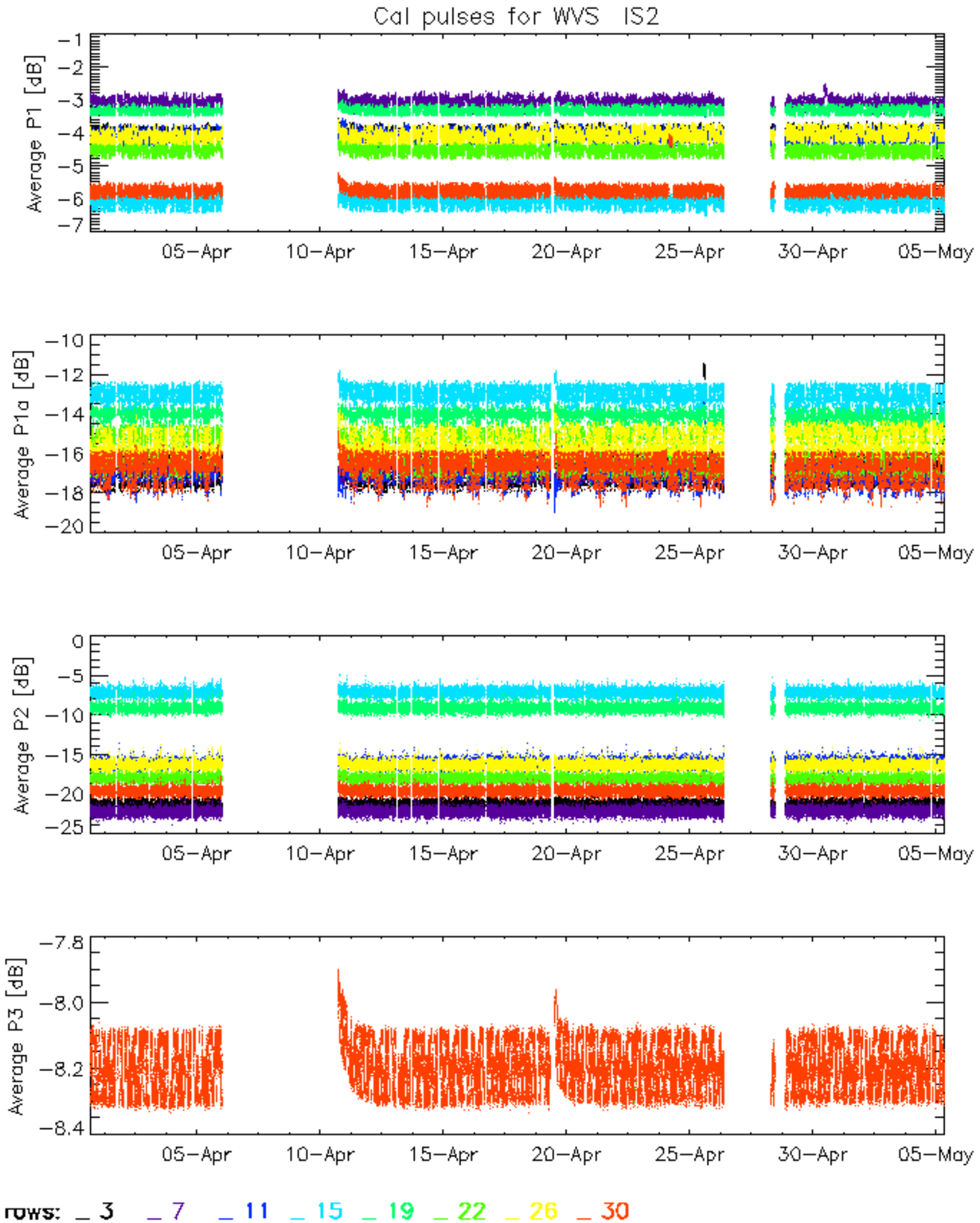
Evolution Doppler error versus ANX

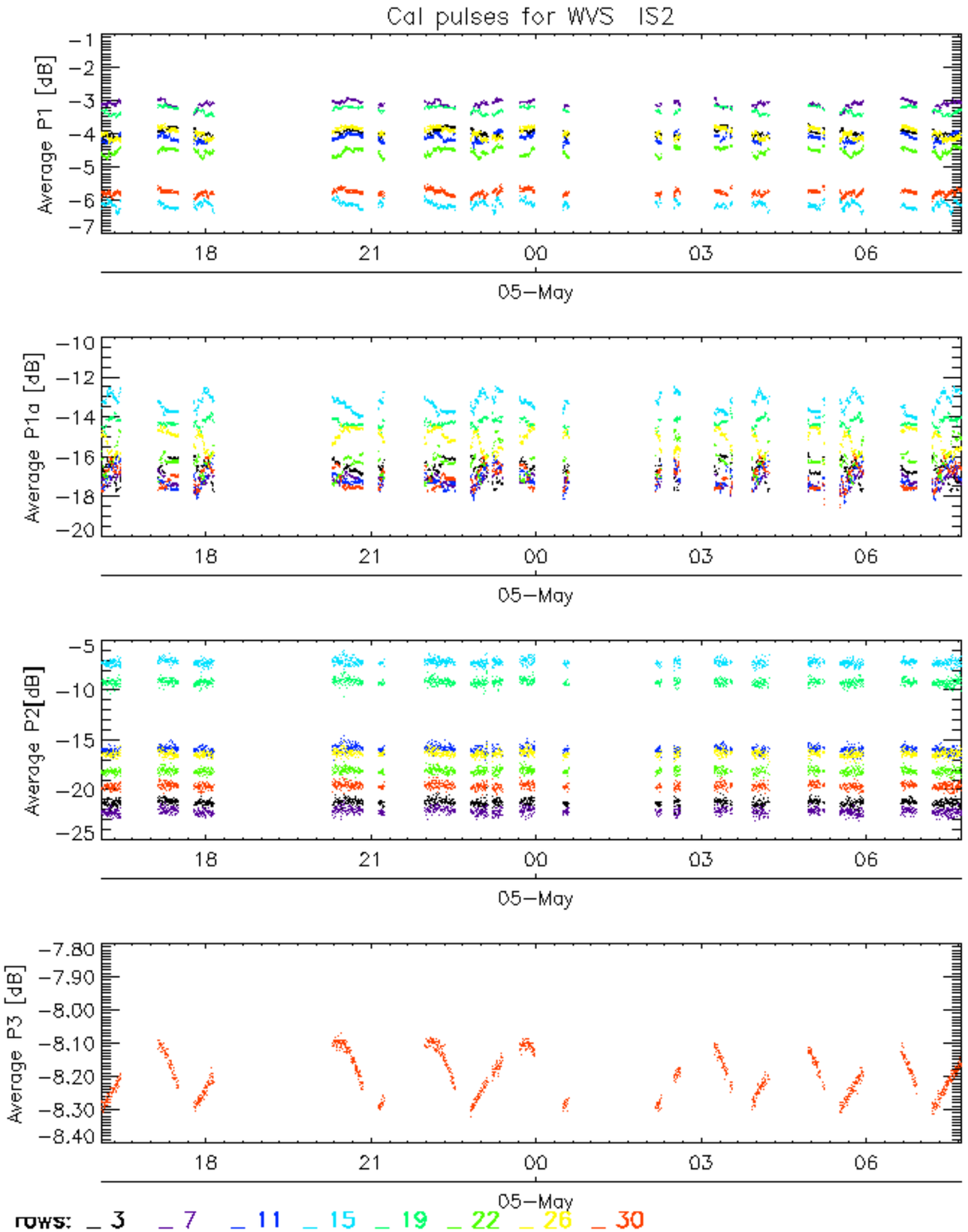

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
05−May
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
05−May
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
05−May
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
05−May
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
05−May
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
05−May
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
05−May
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
05−May
rows: 3 7 11 15 19 22 26 30

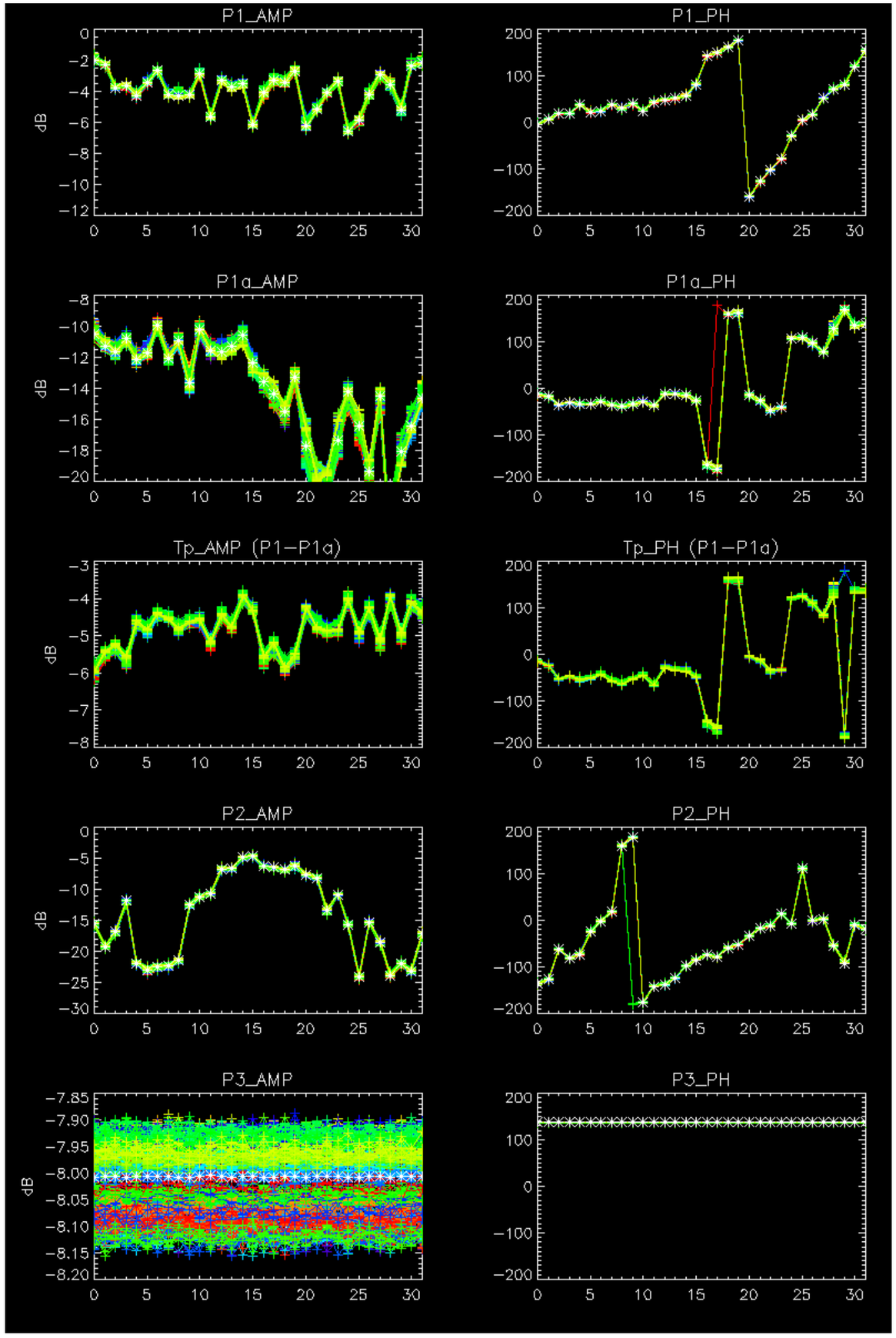

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
05−May
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

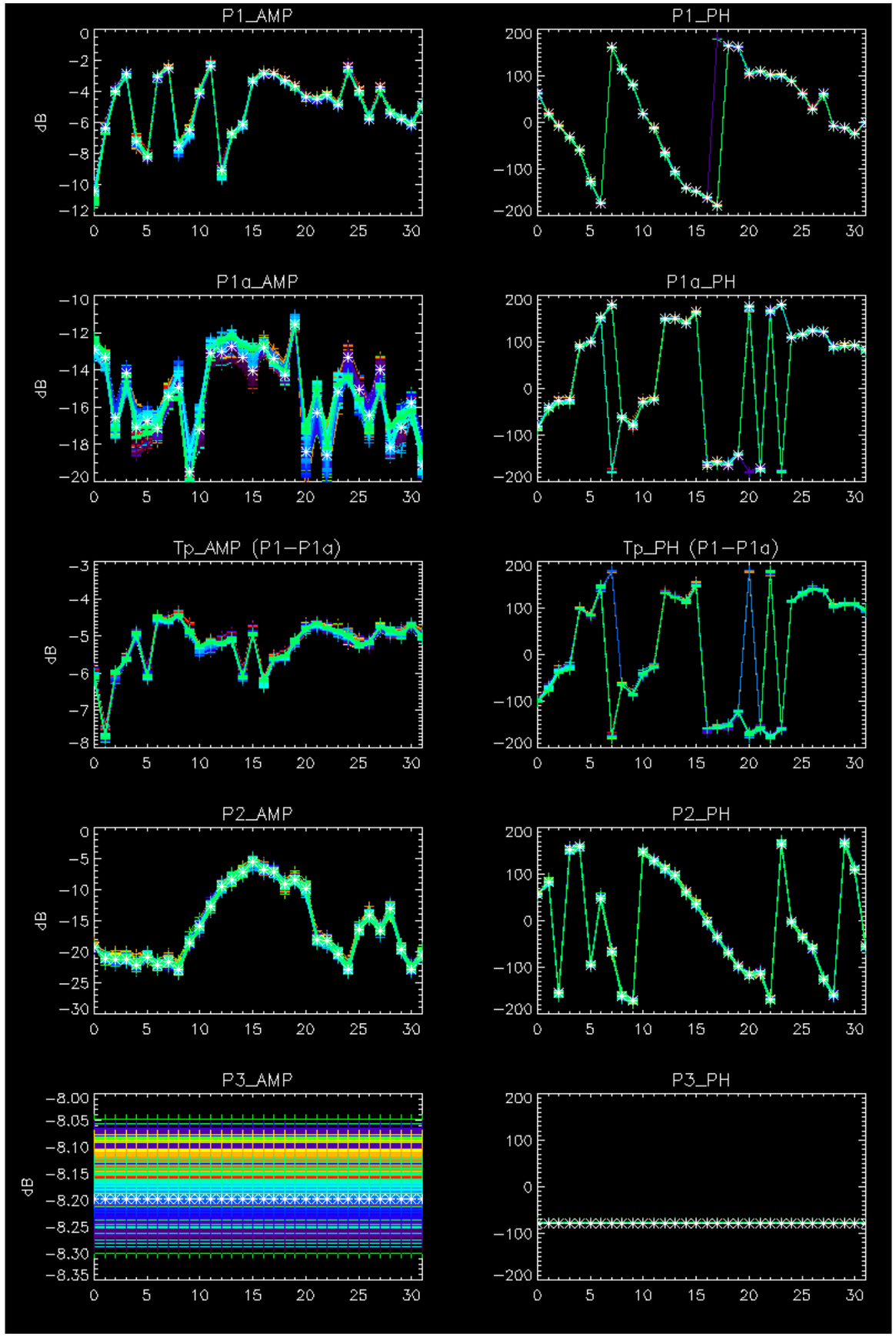

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
05−May
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
05−May
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
05−May
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
05−May
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
05−May
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
05−May
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
05−May
Average P2[dB]
−5
−10
−15
−20
−25
18
21
00
03
06
05−May
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
05−May
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

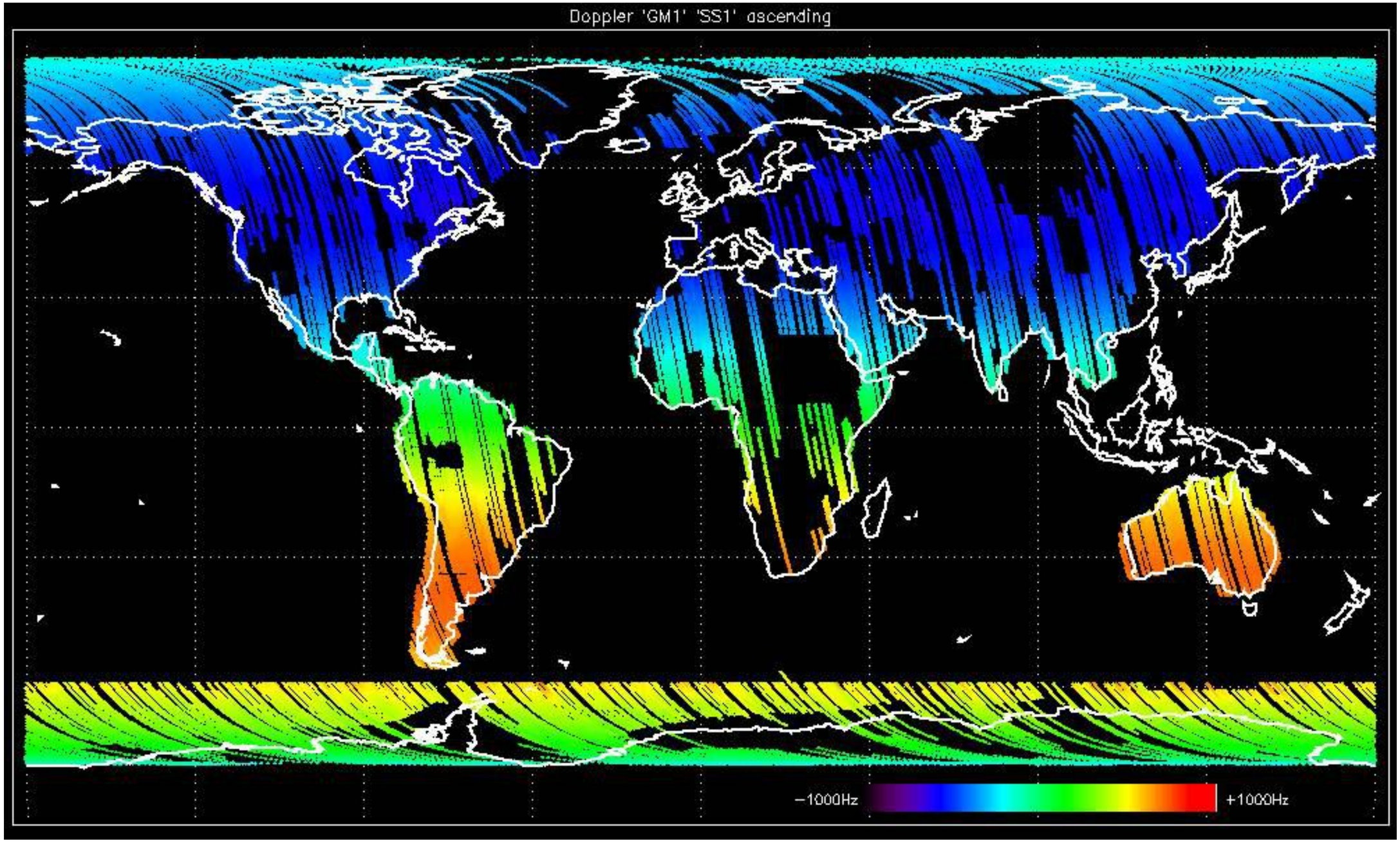
No anomalies observed.

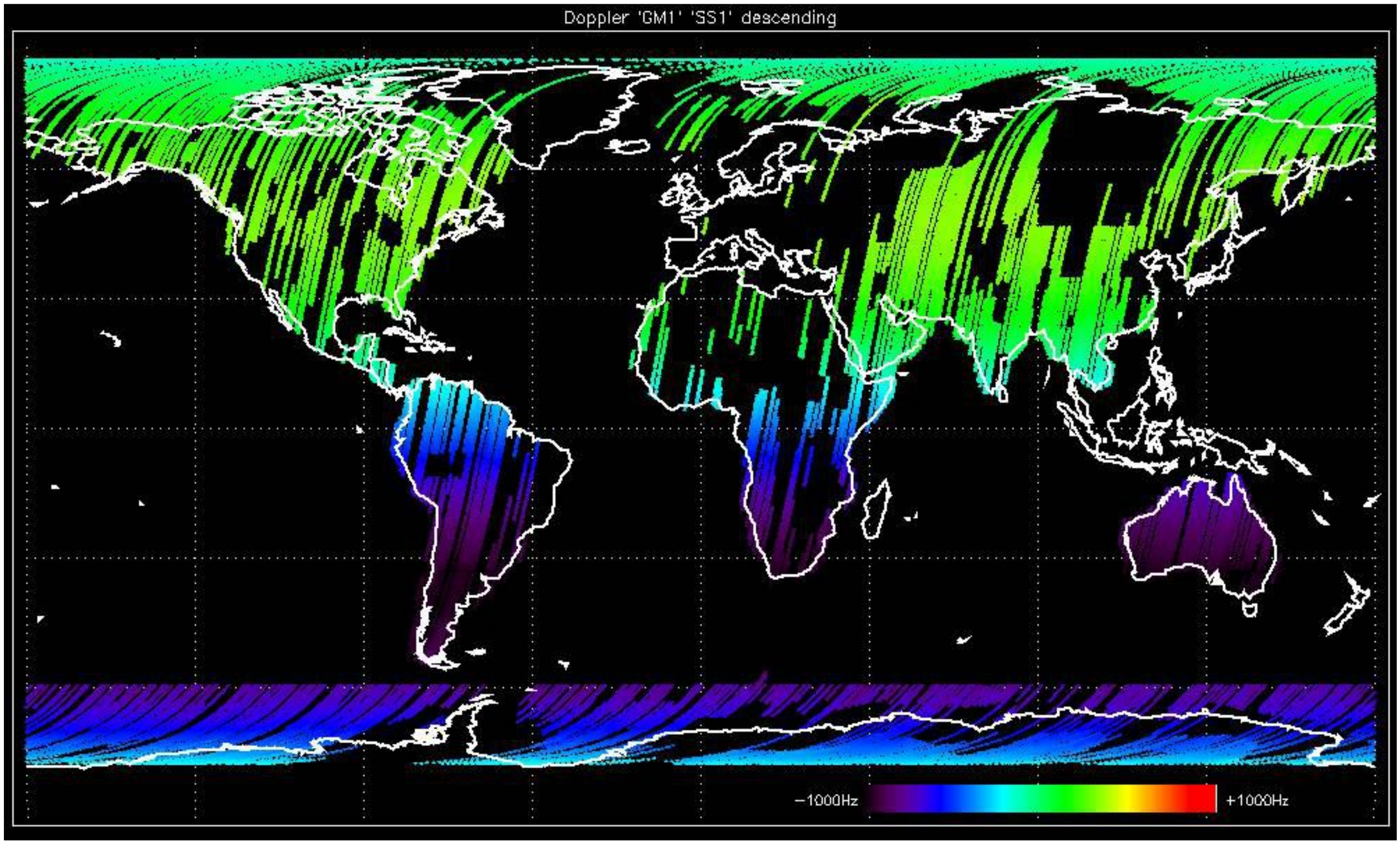

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

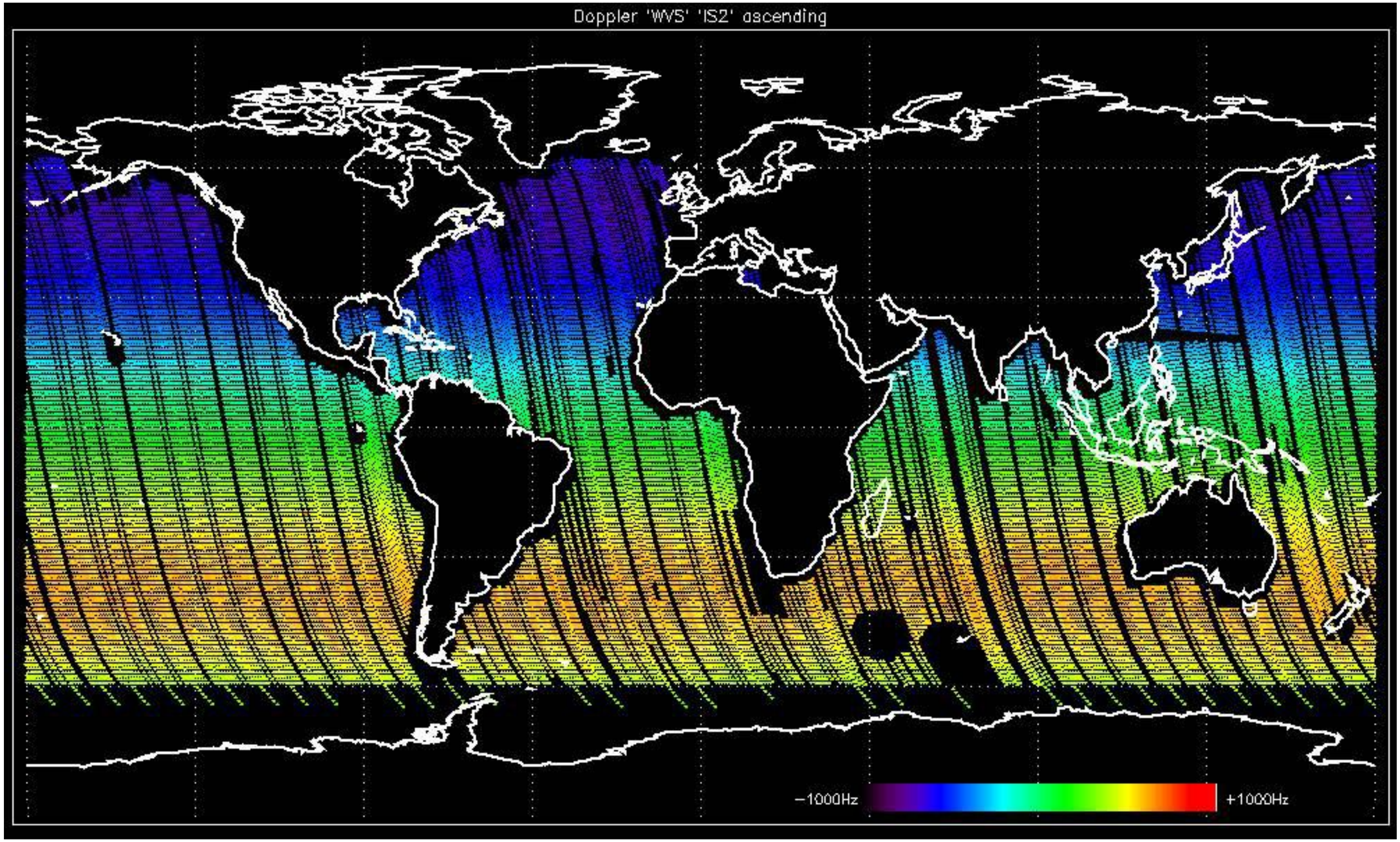

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

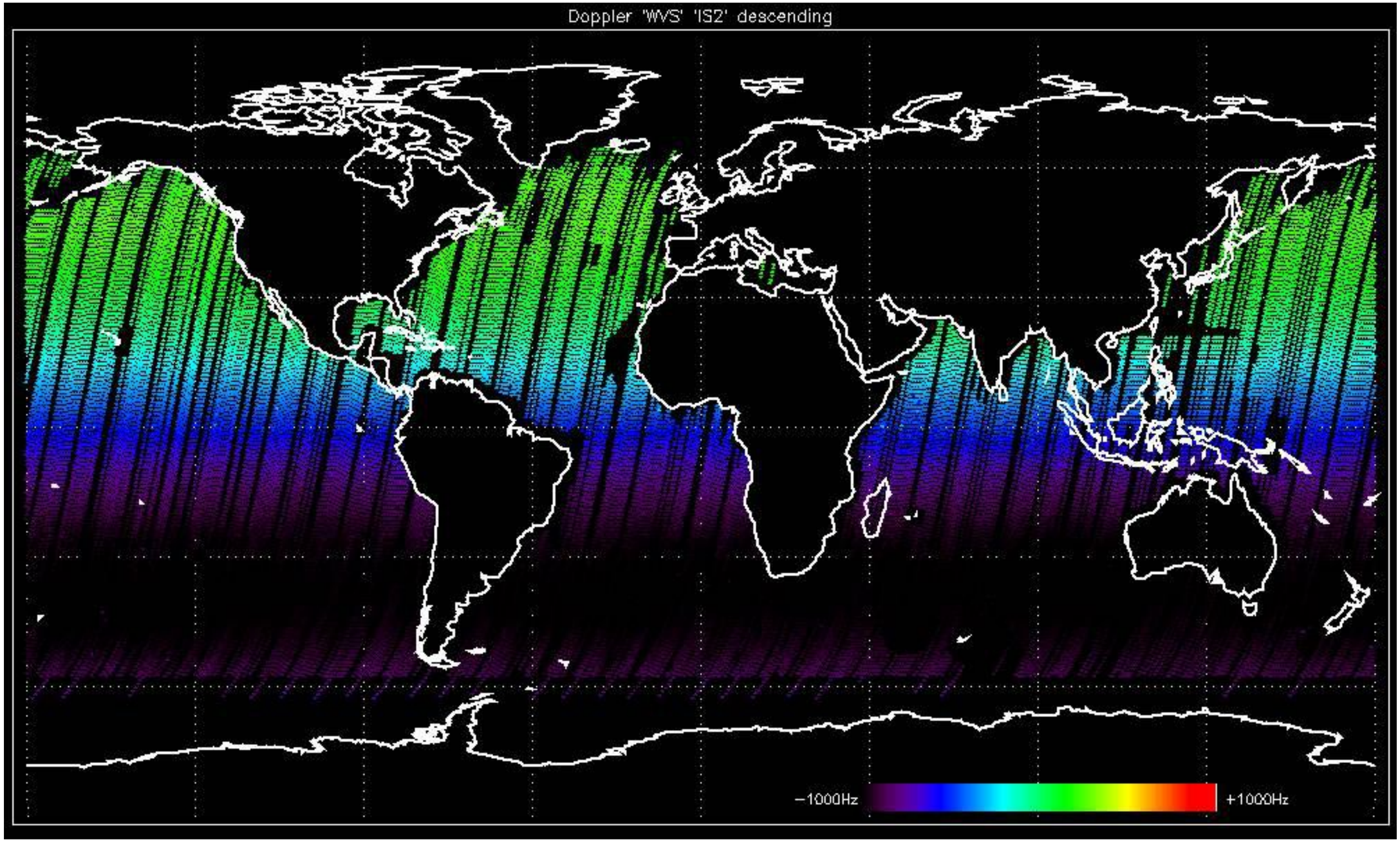
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

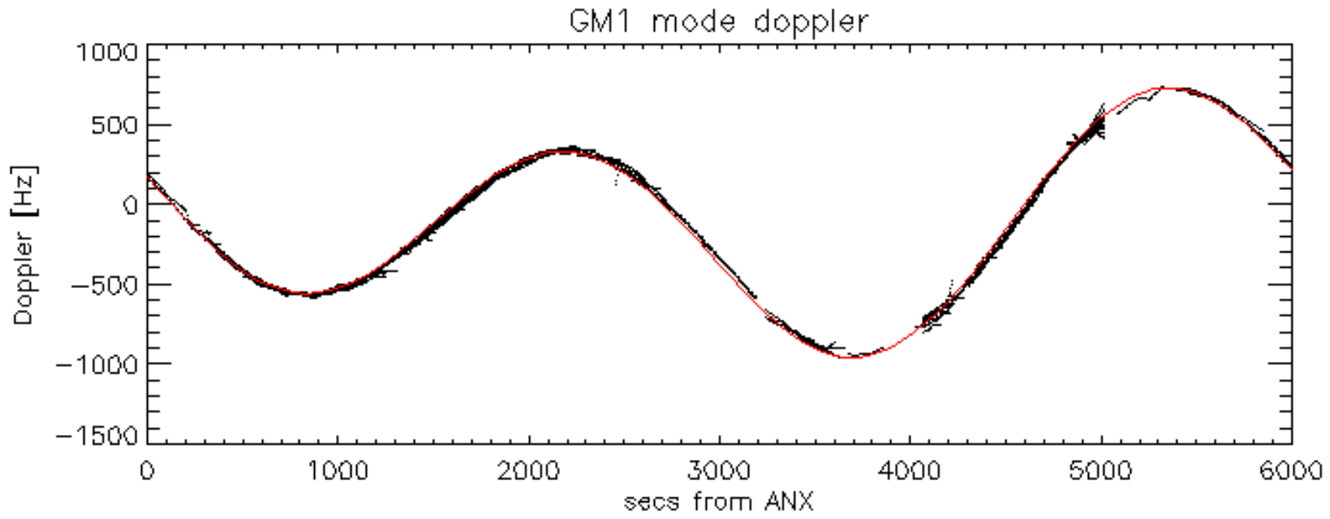
Preliminary report.The data is not yet controled

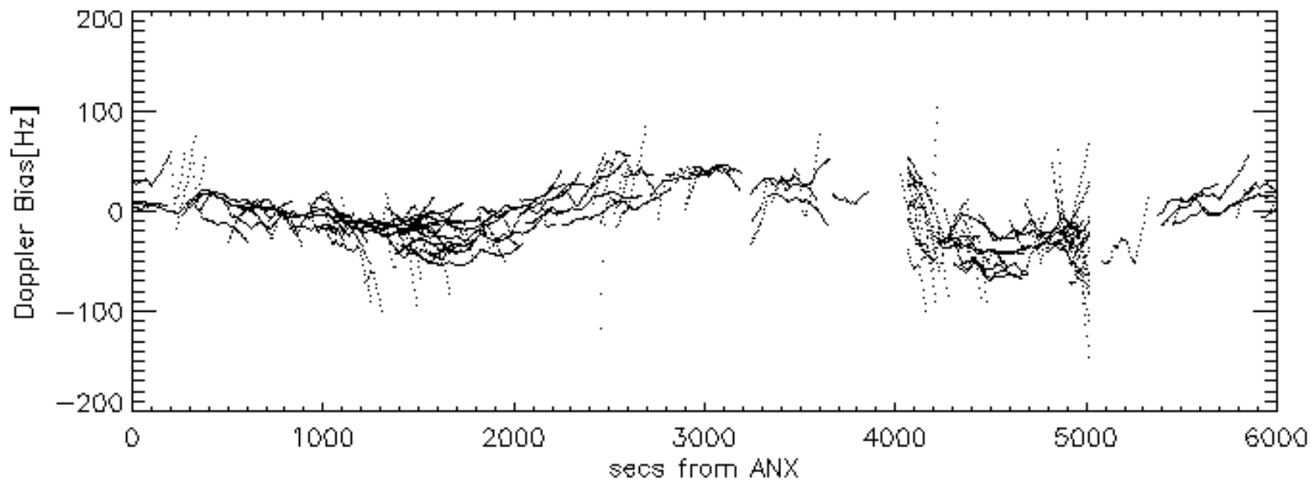

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

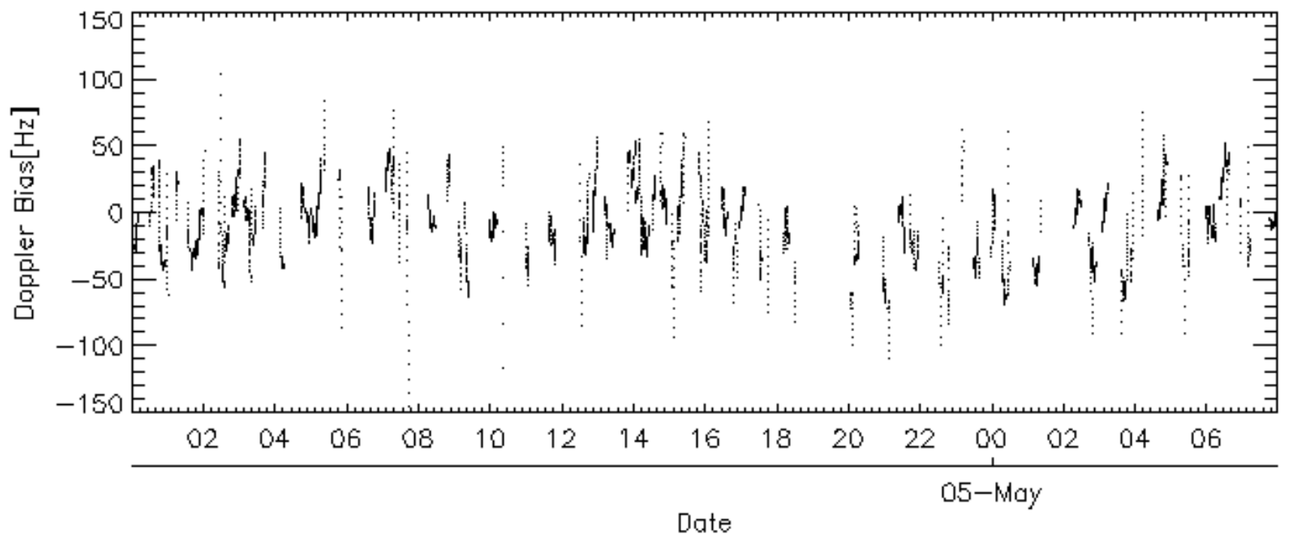

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

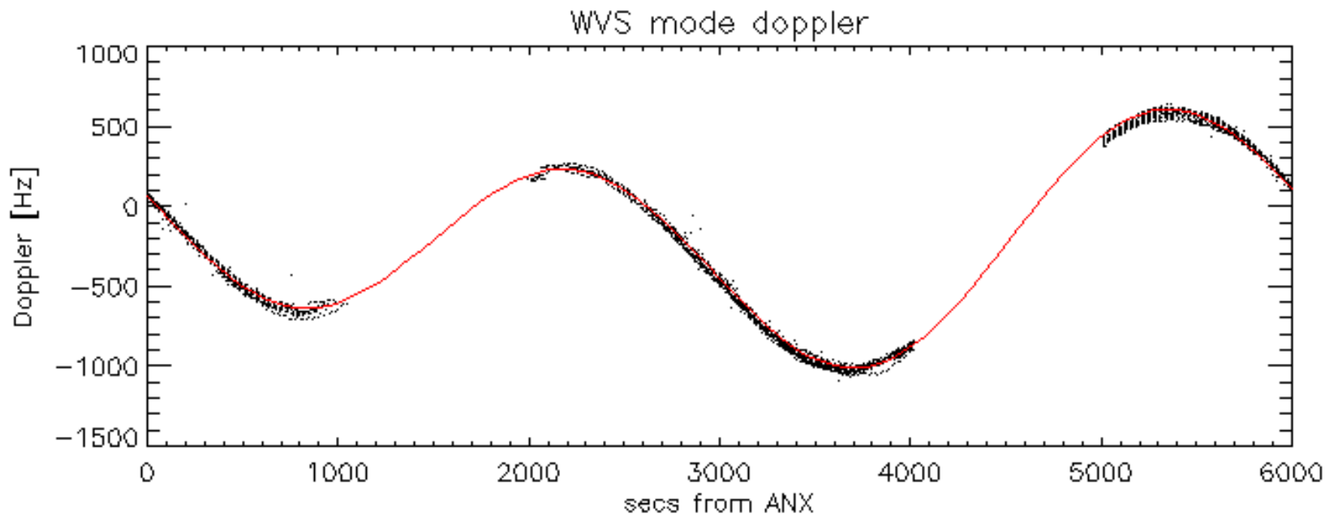

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

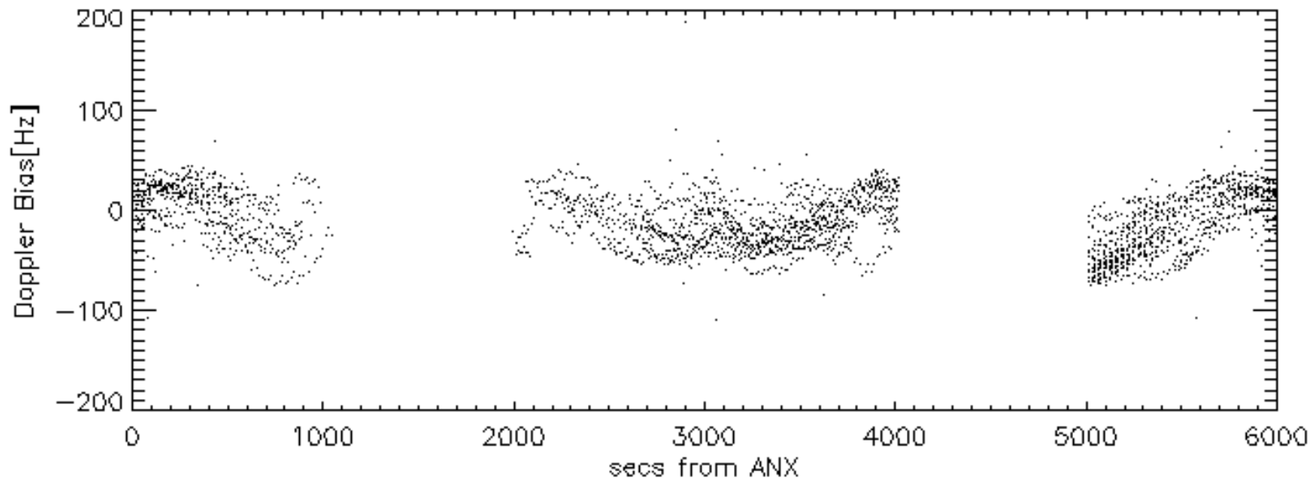

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

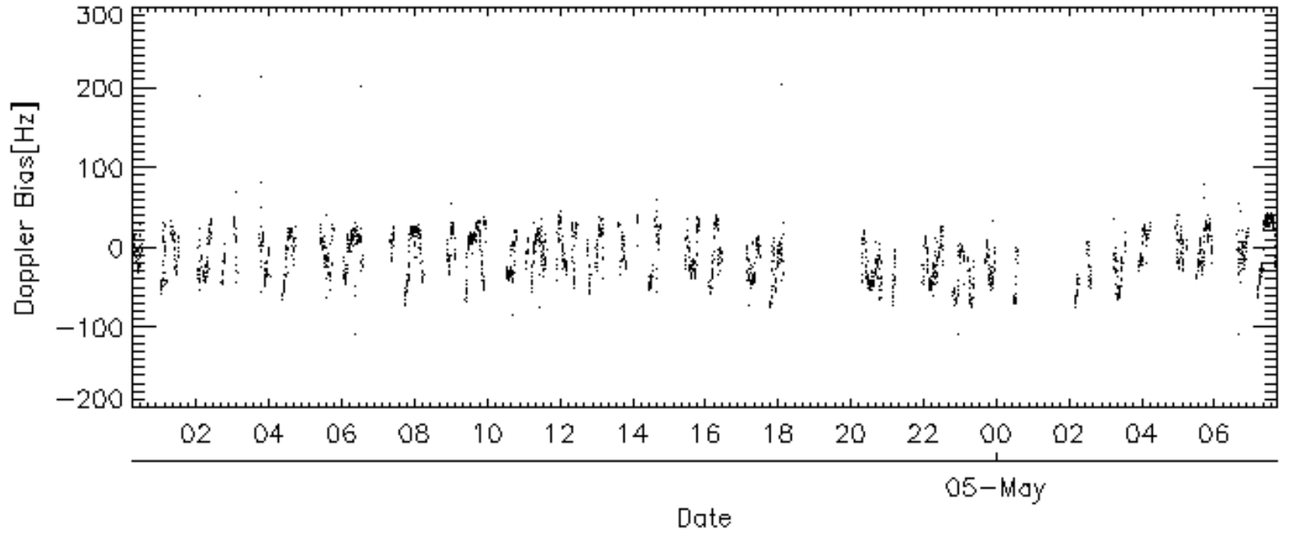

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

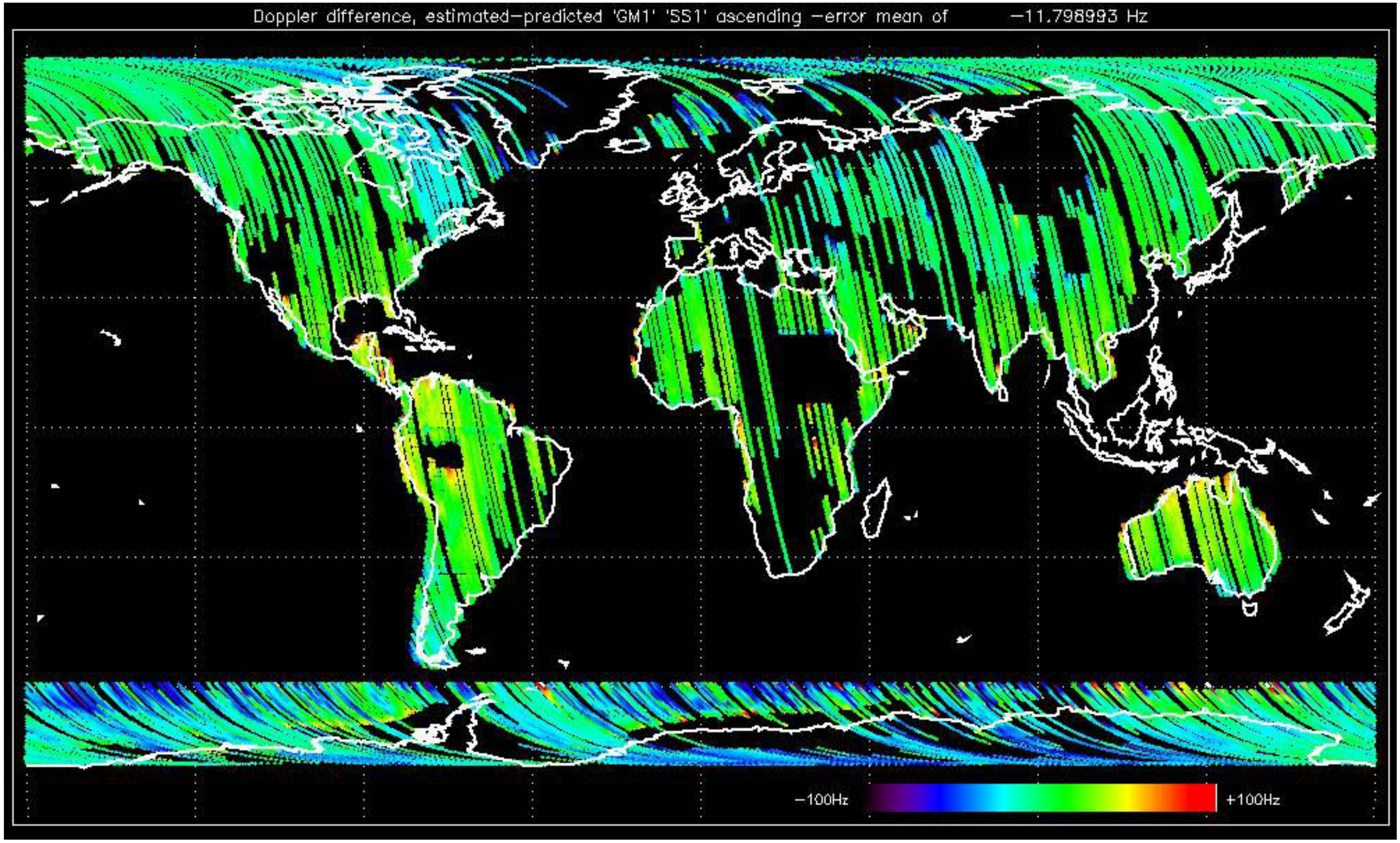

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

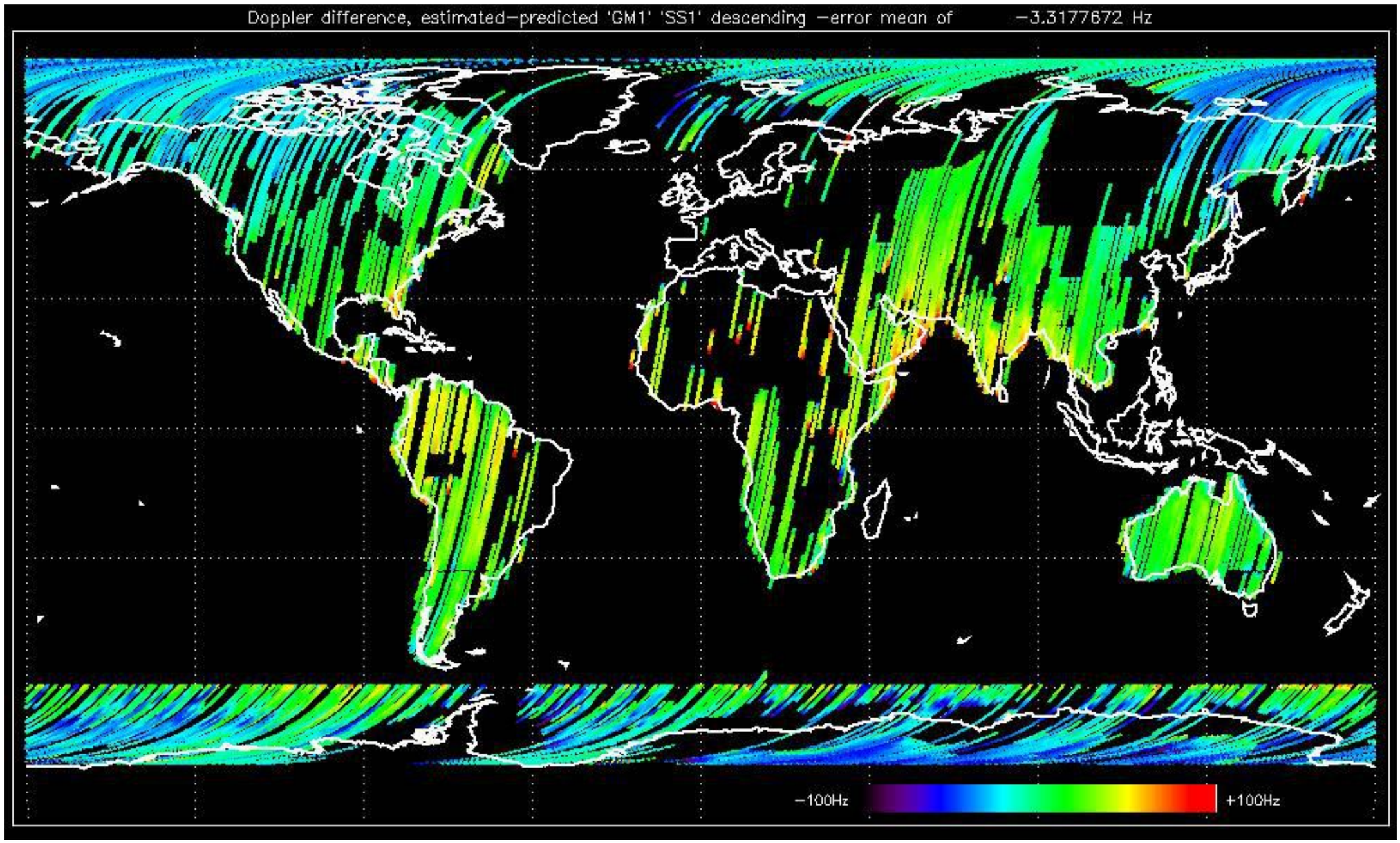

Doppler Bias[Hz]
150
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
05−May
Date

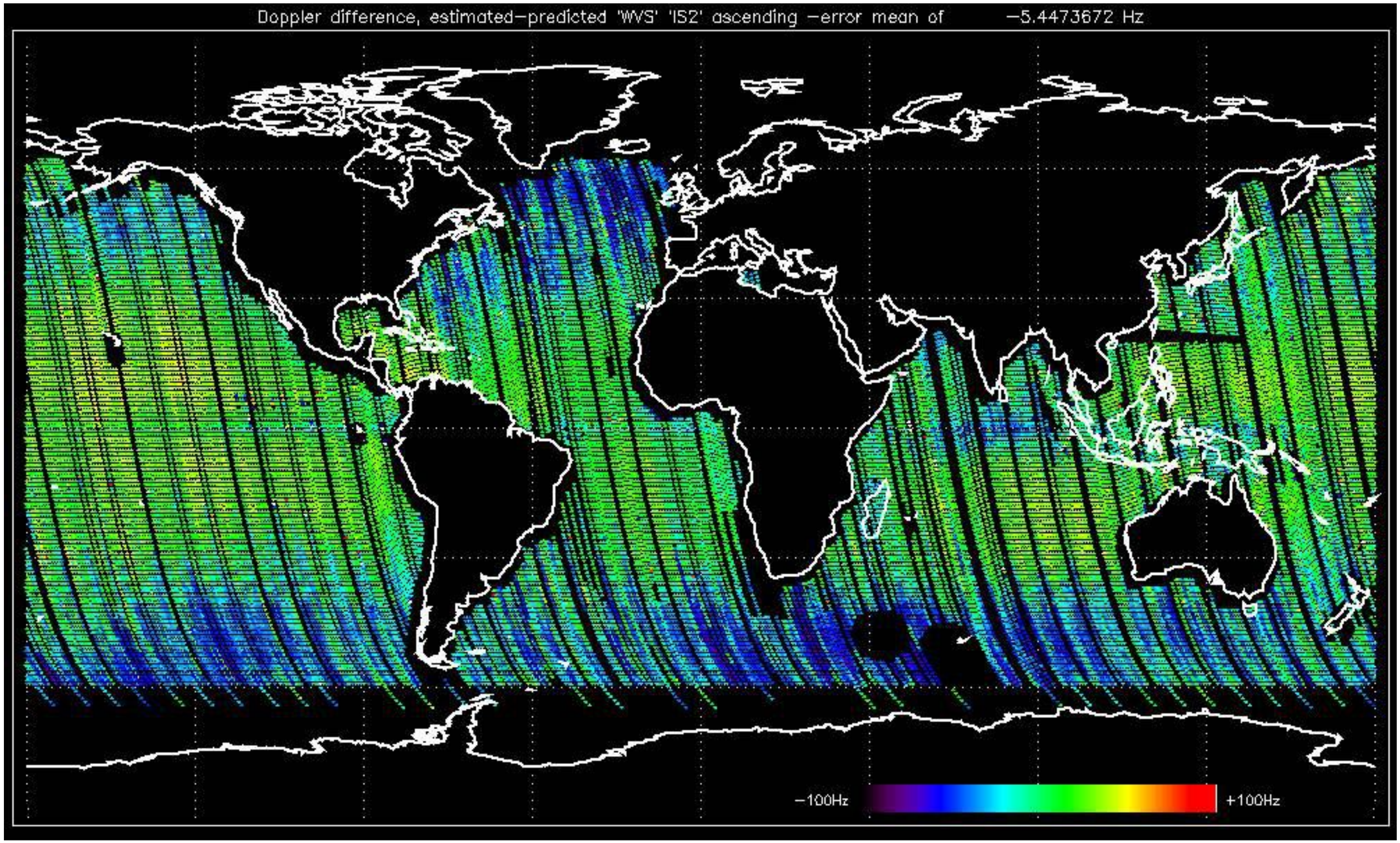

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

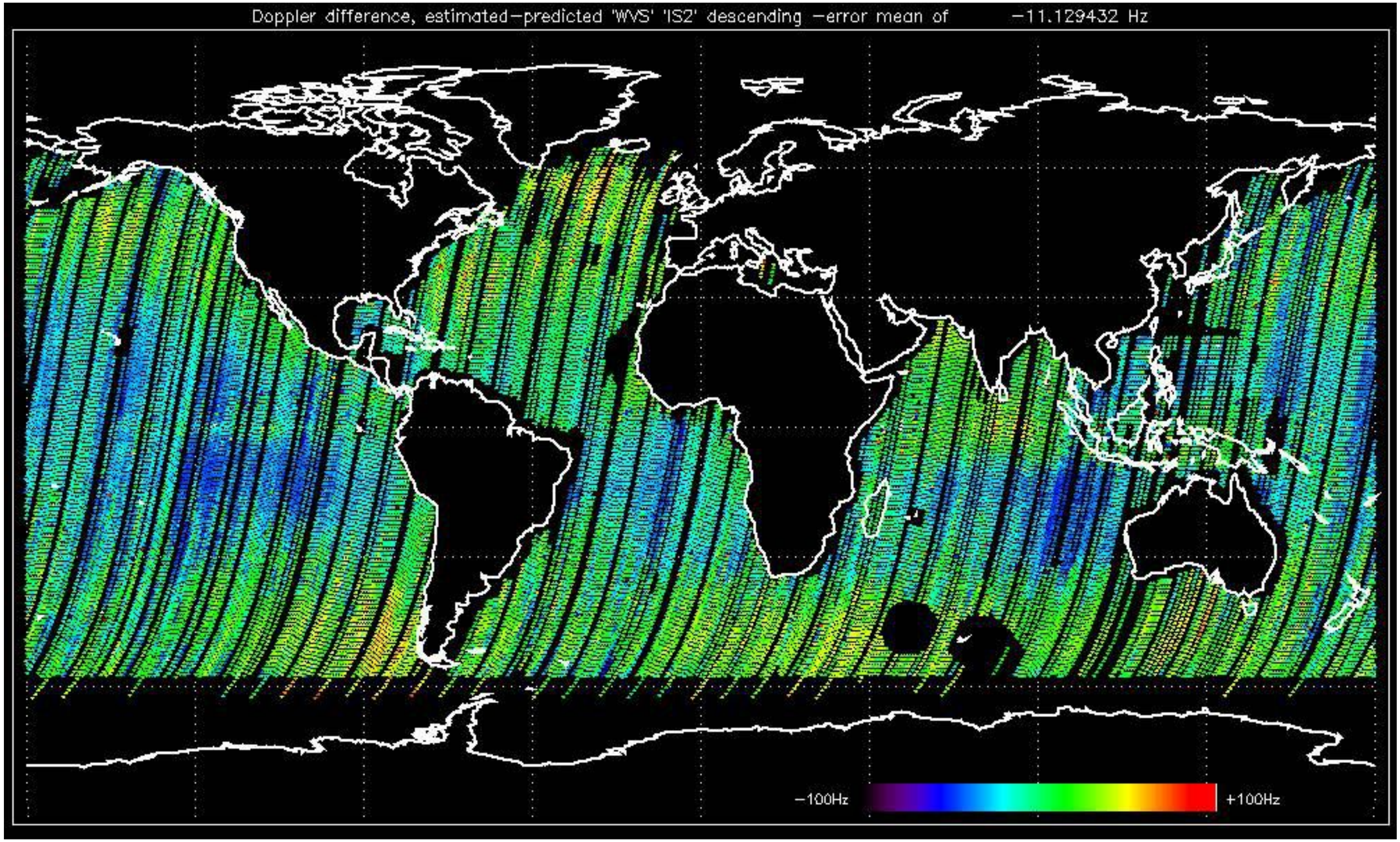

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
05−May
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −11.798993 Hz
−100Hz
+100Hz

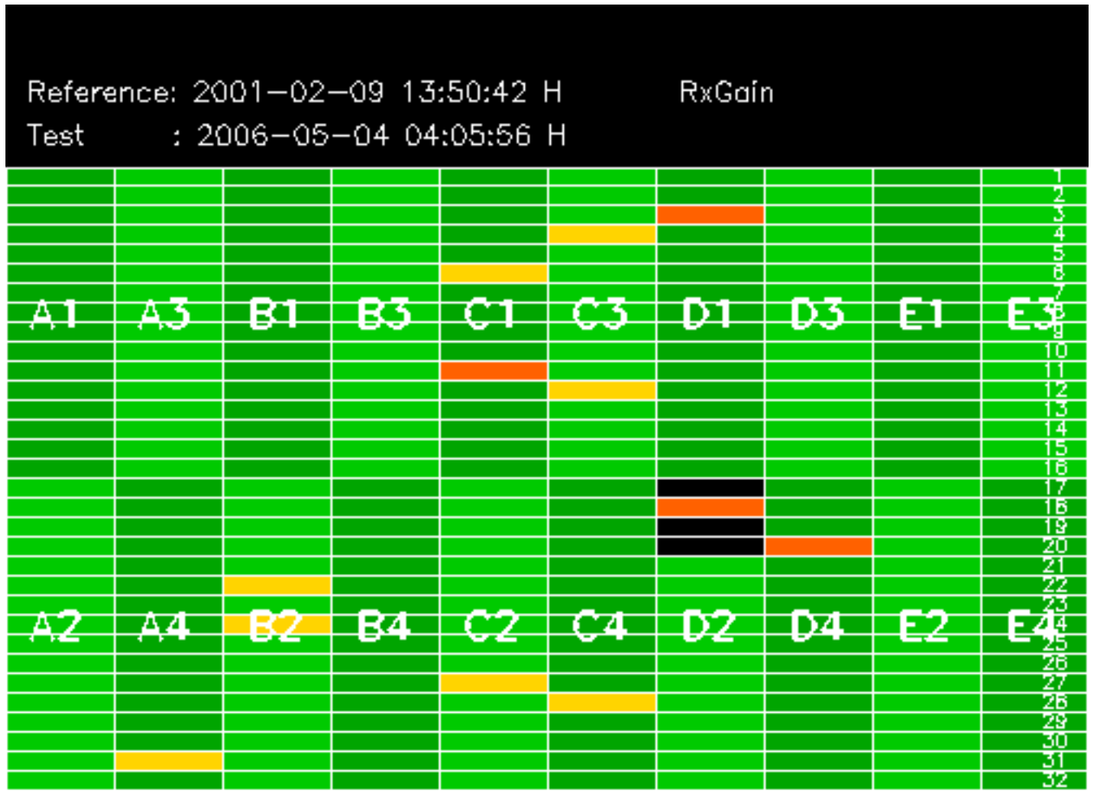

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −3.3177672 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −5.4473672 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −11.129432 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-04 04:05:56 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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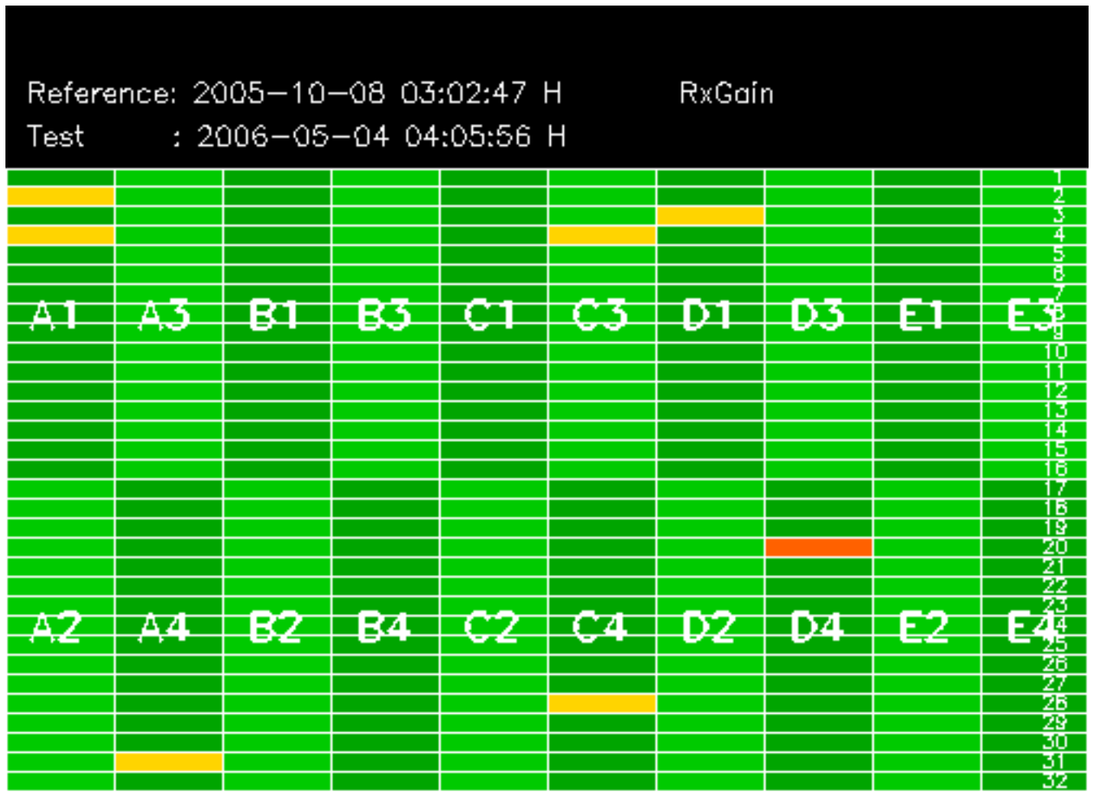
Reference: 2005-10-08 03:02:47 H
Test : 2006-05-04 04:05:56 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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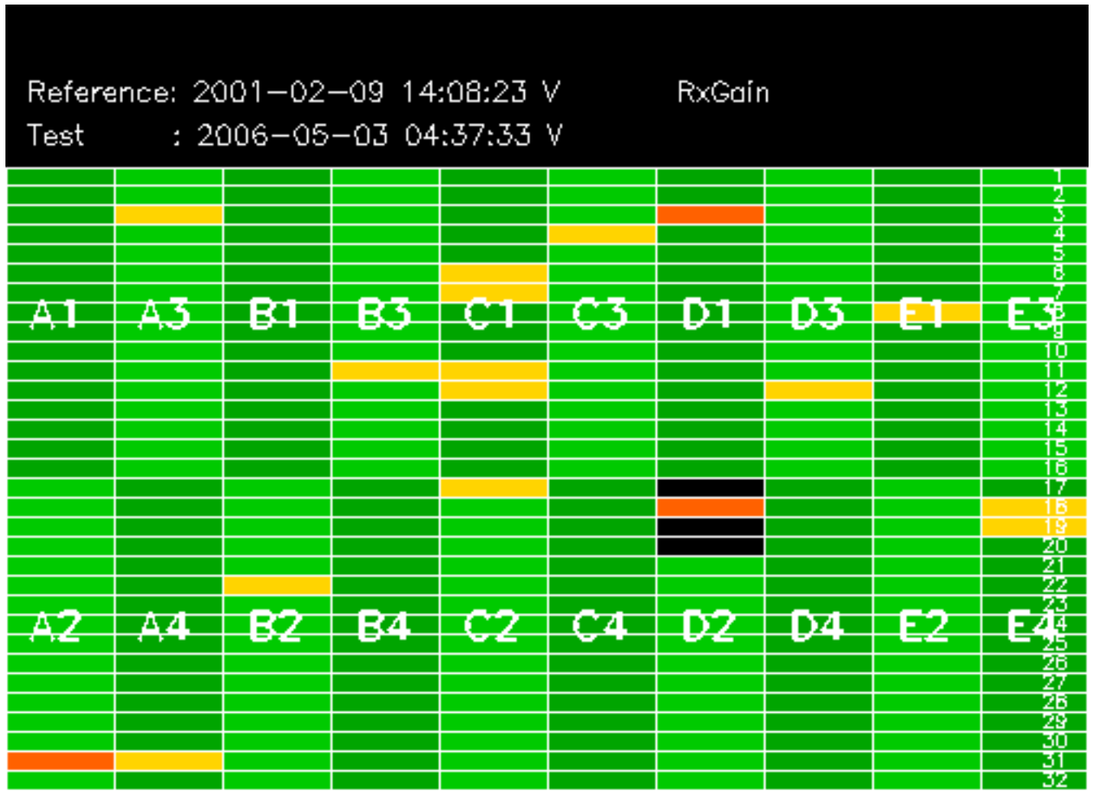
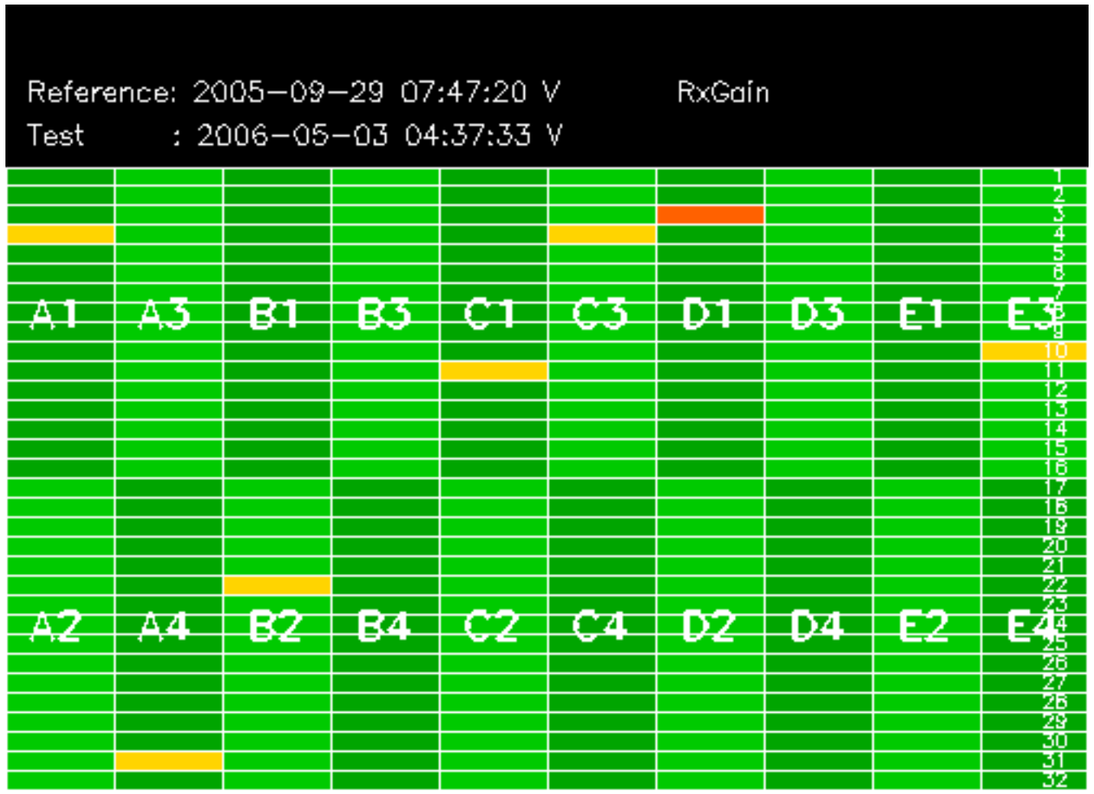

Reference: 2001-02-09 14:08:23 V
Test : 2006-05-03 04:37:33 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-05-03 04:37:33 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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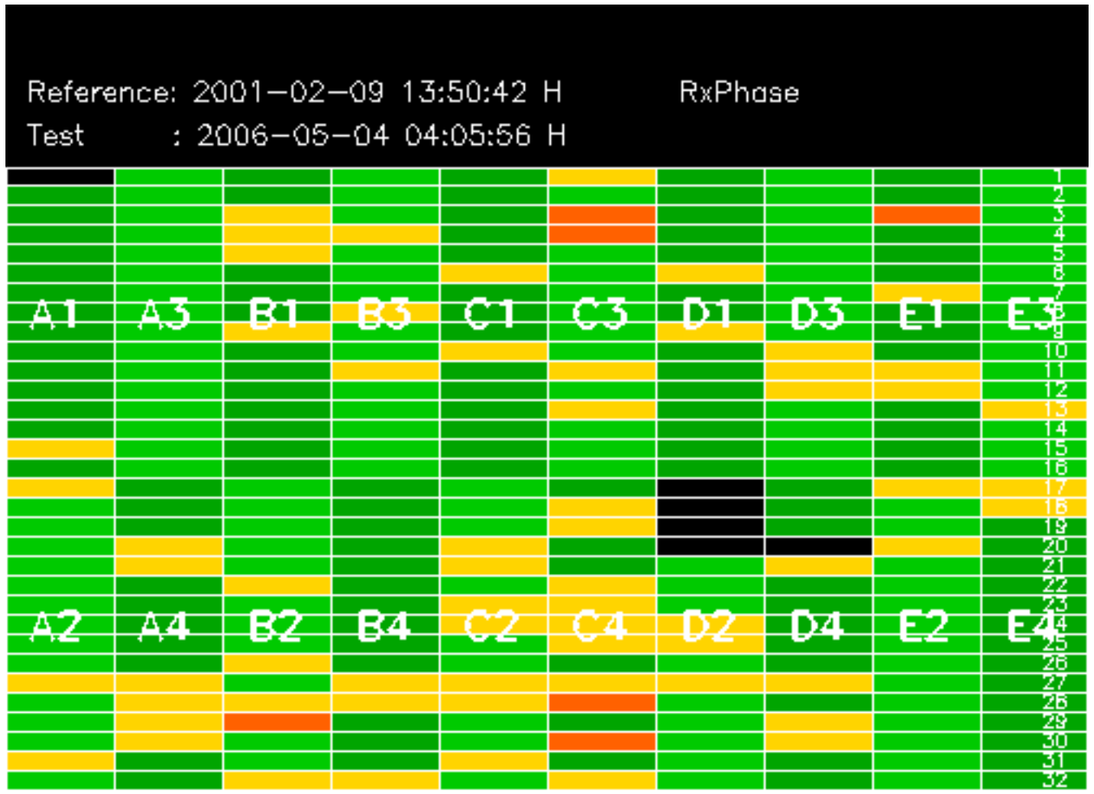
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-05-04 04:05:56 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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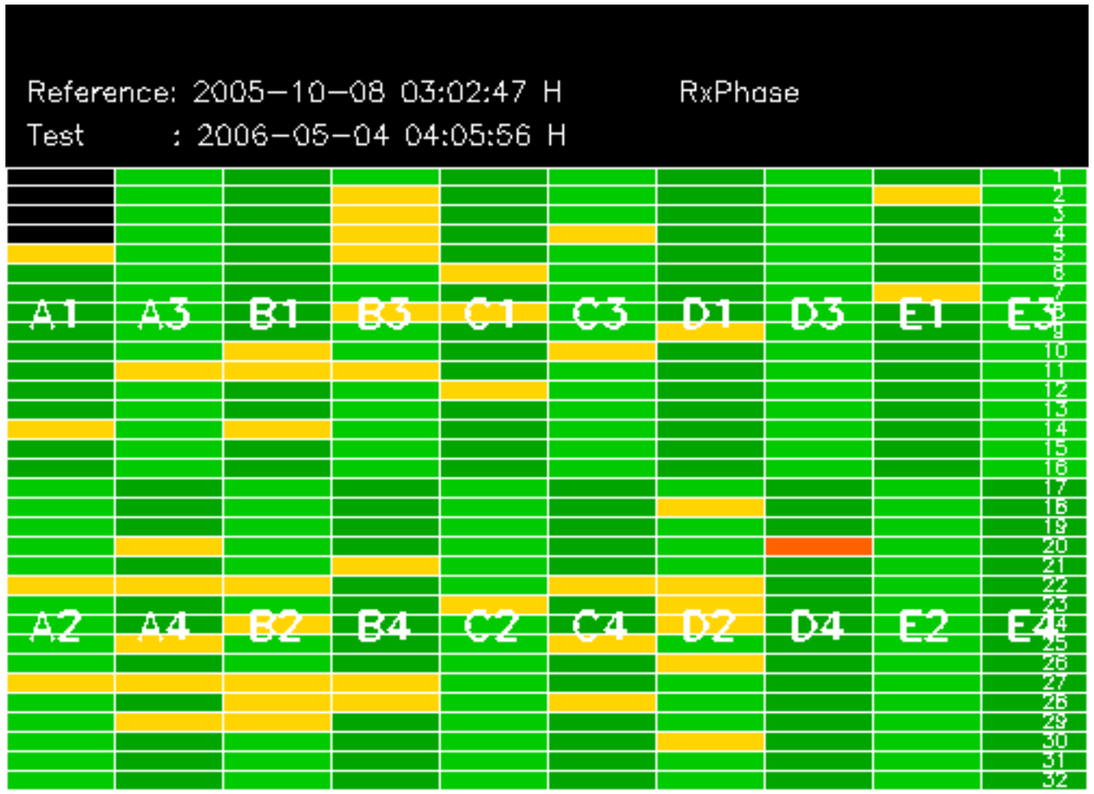
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-05-04 04:05:56 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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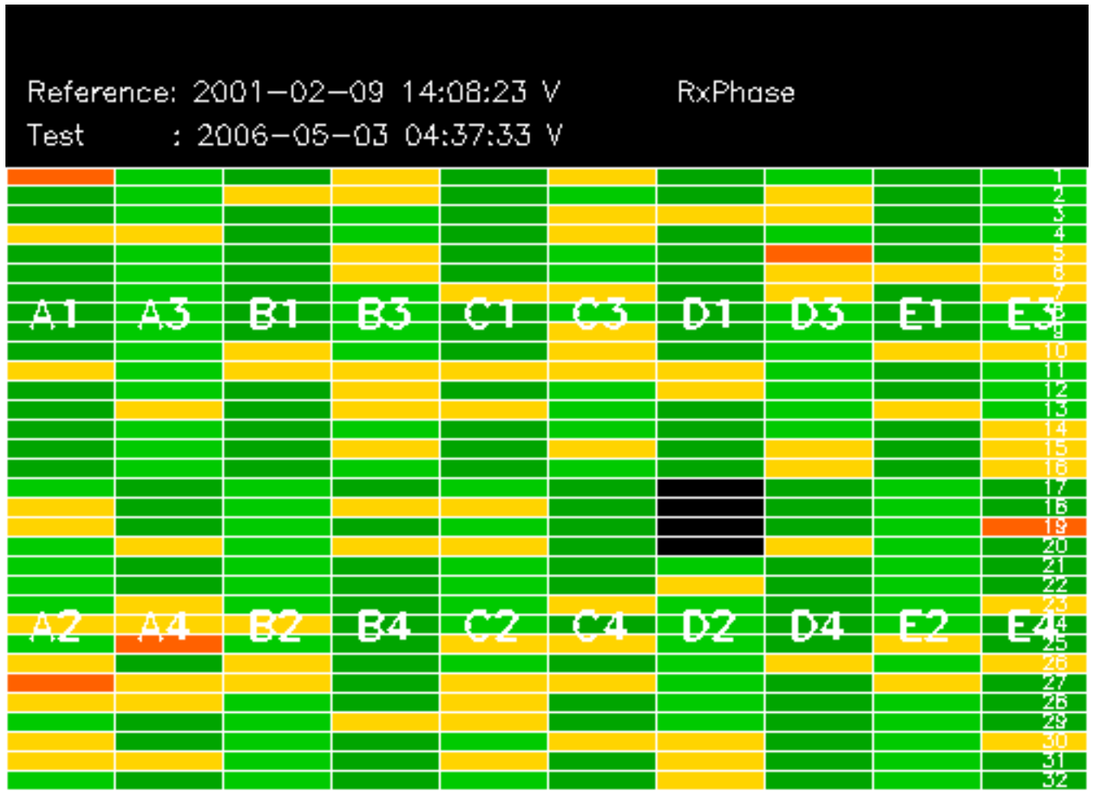
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-03 04:37:33 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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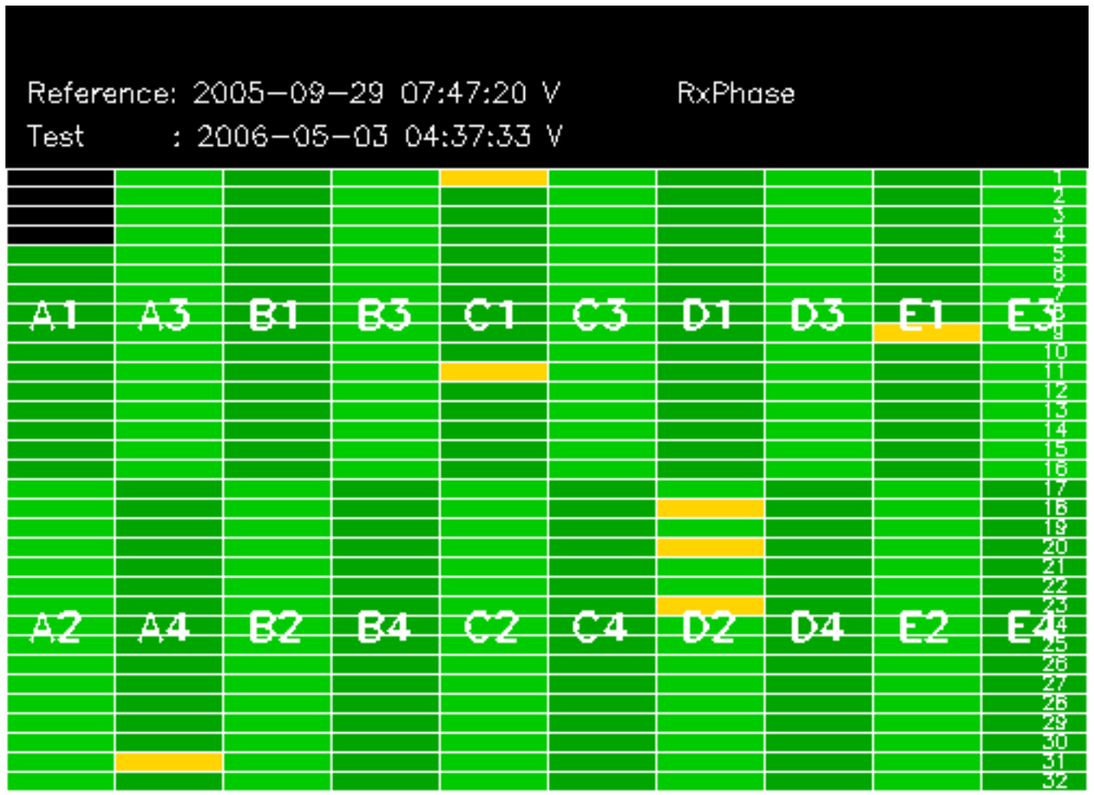
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-03 04:37:33 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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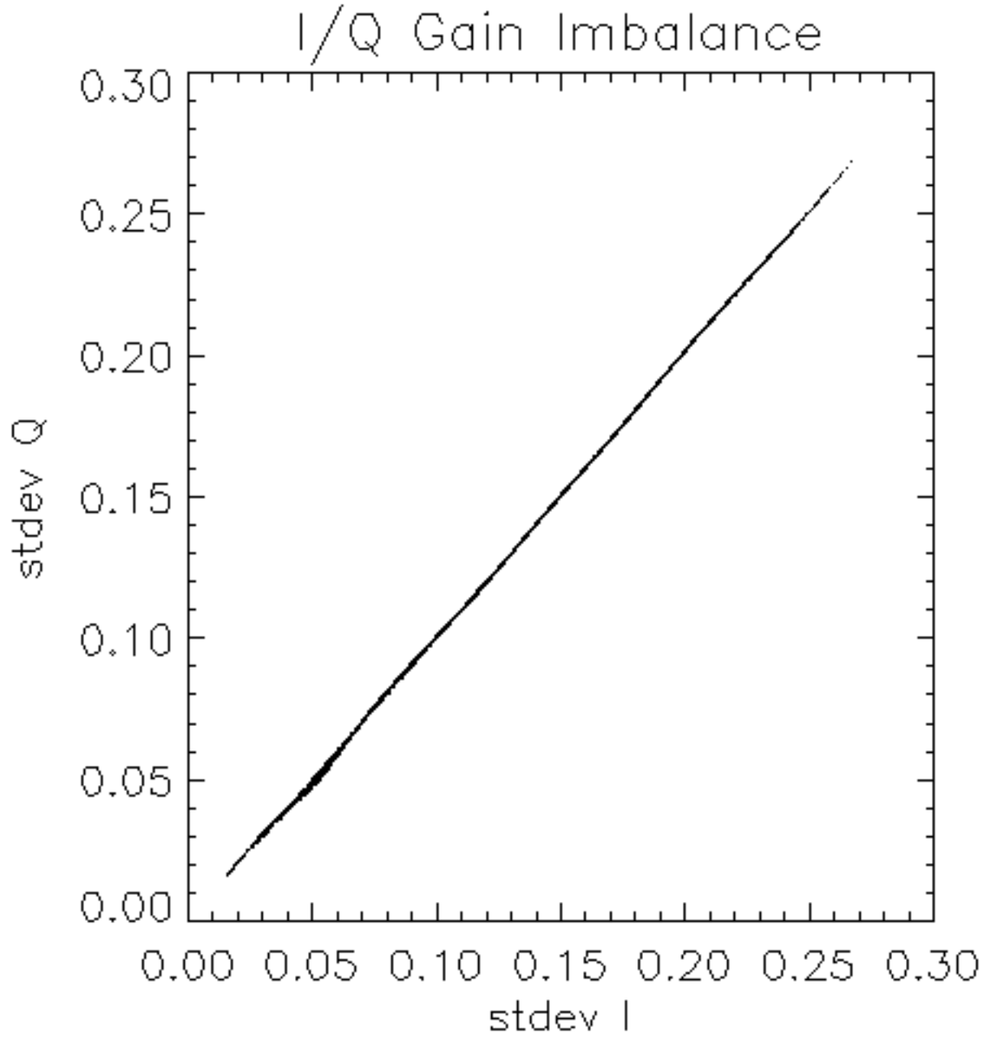
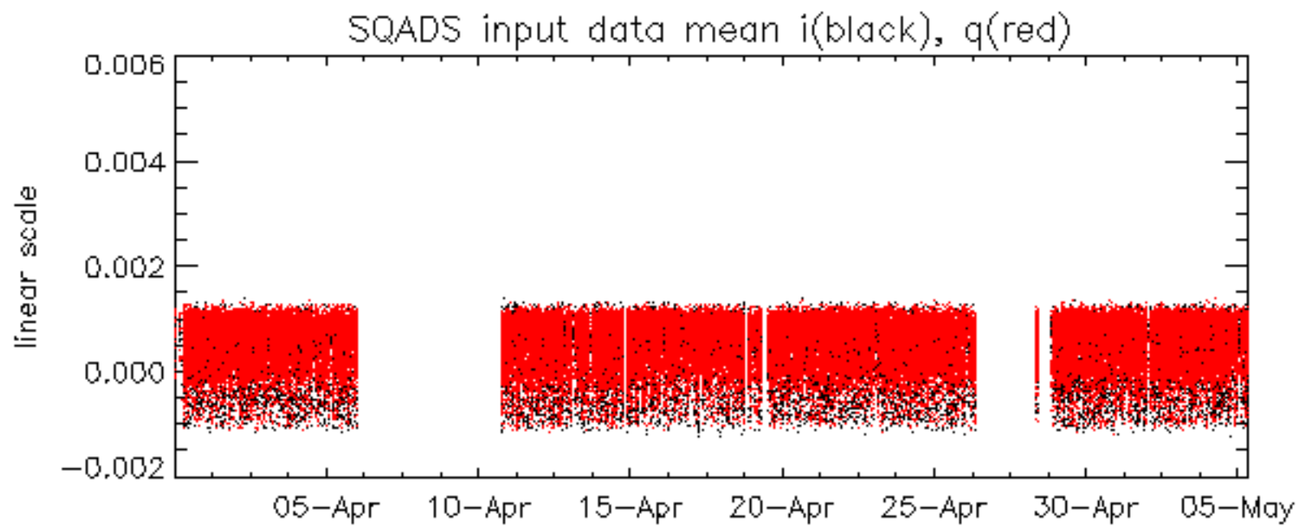
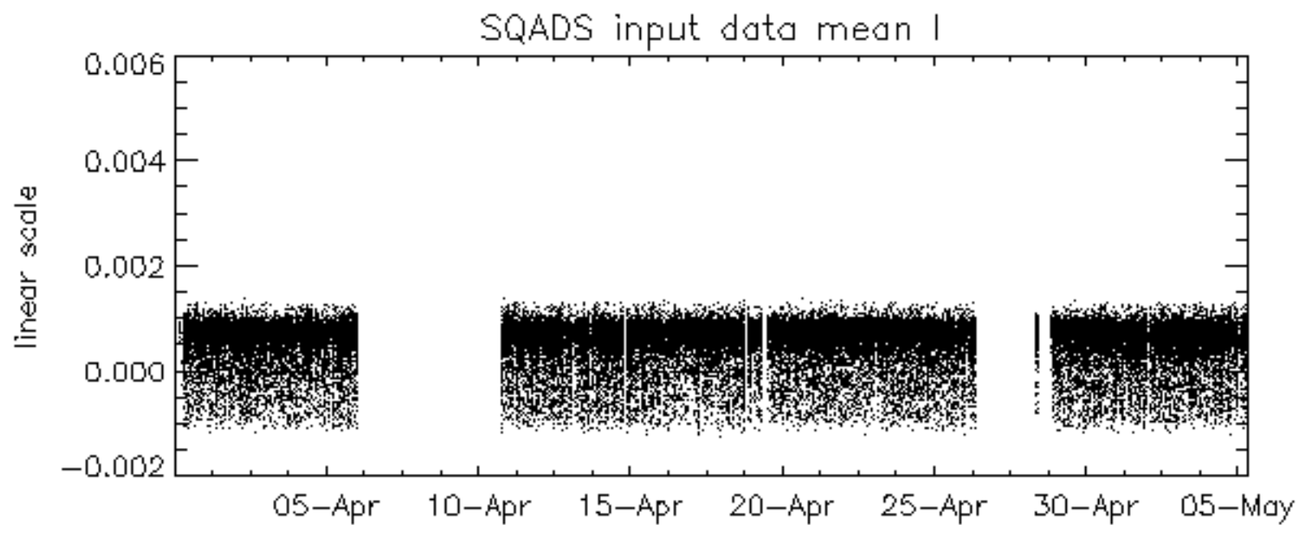
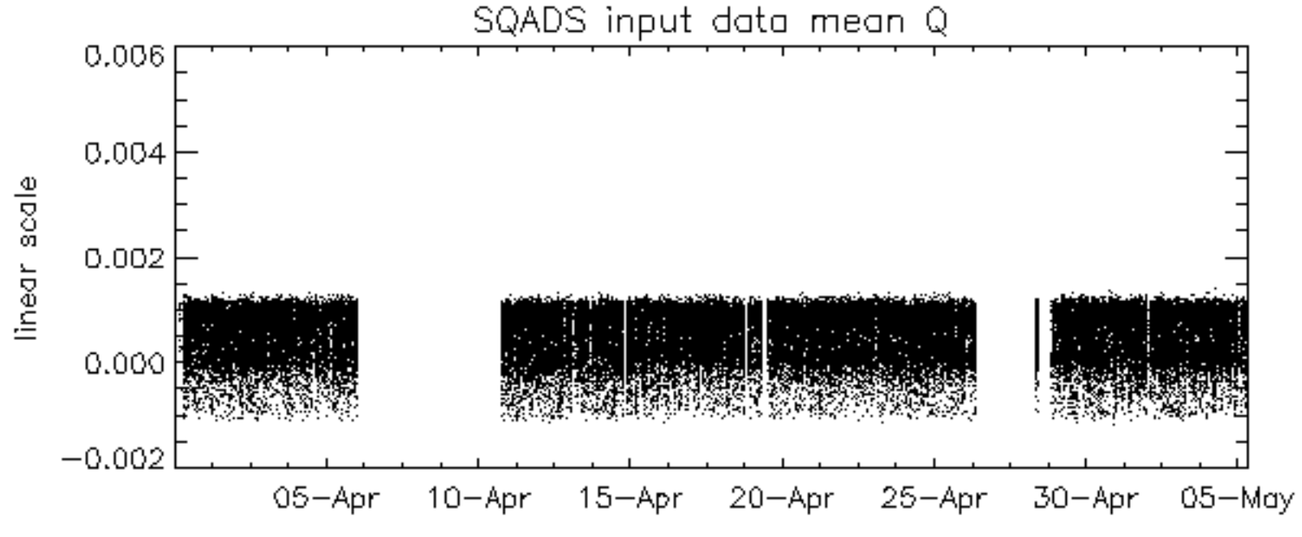
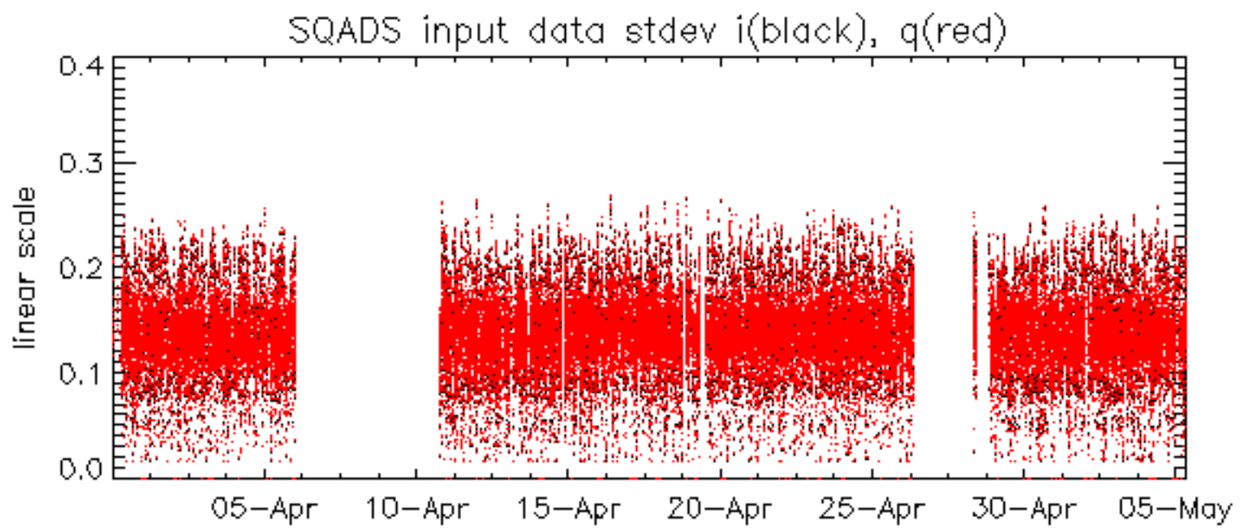
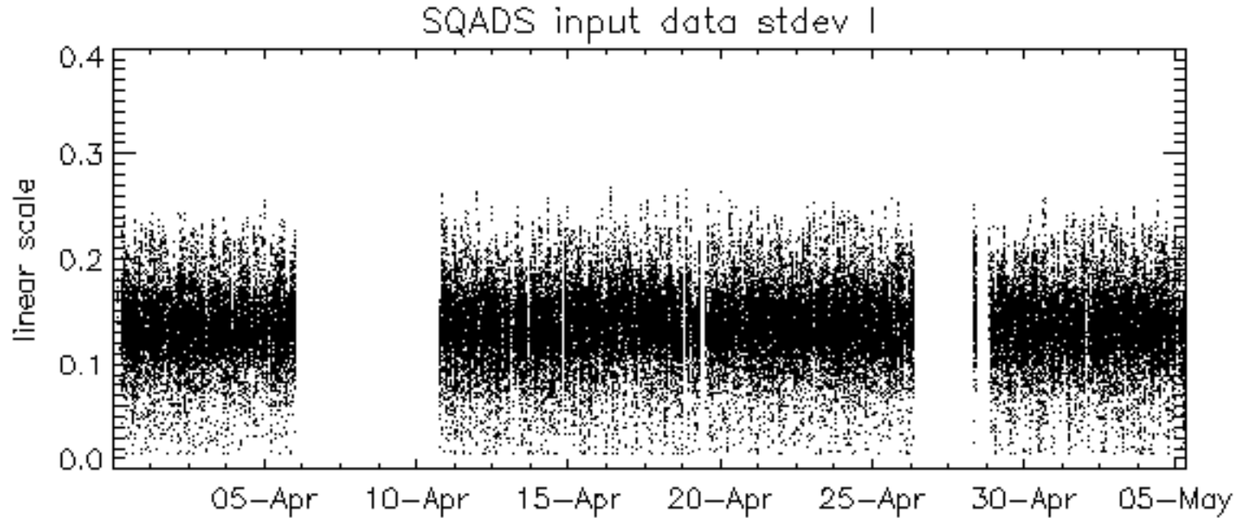

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

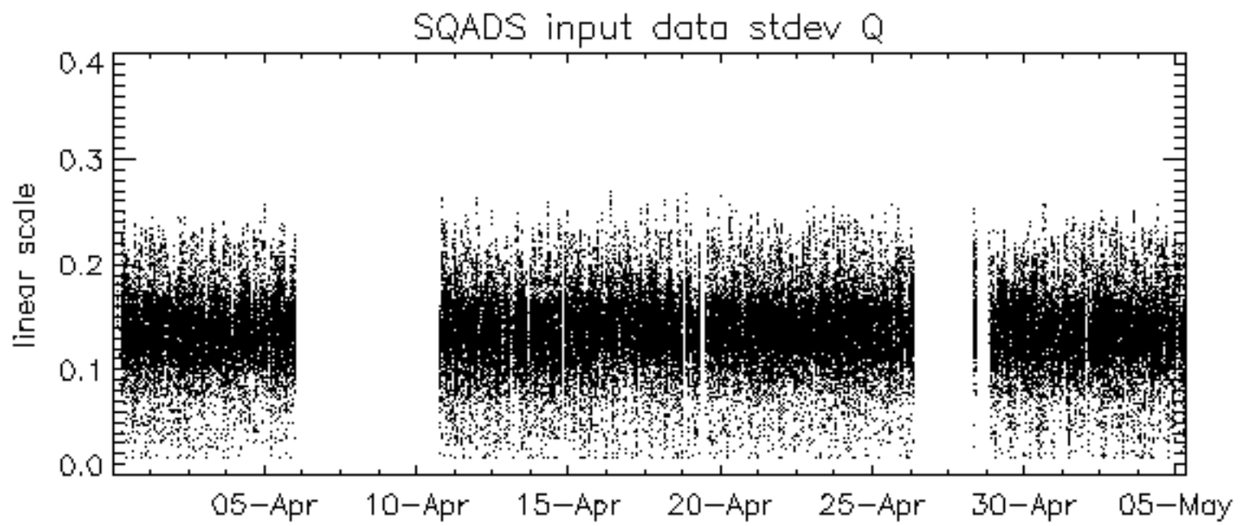

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
05−May

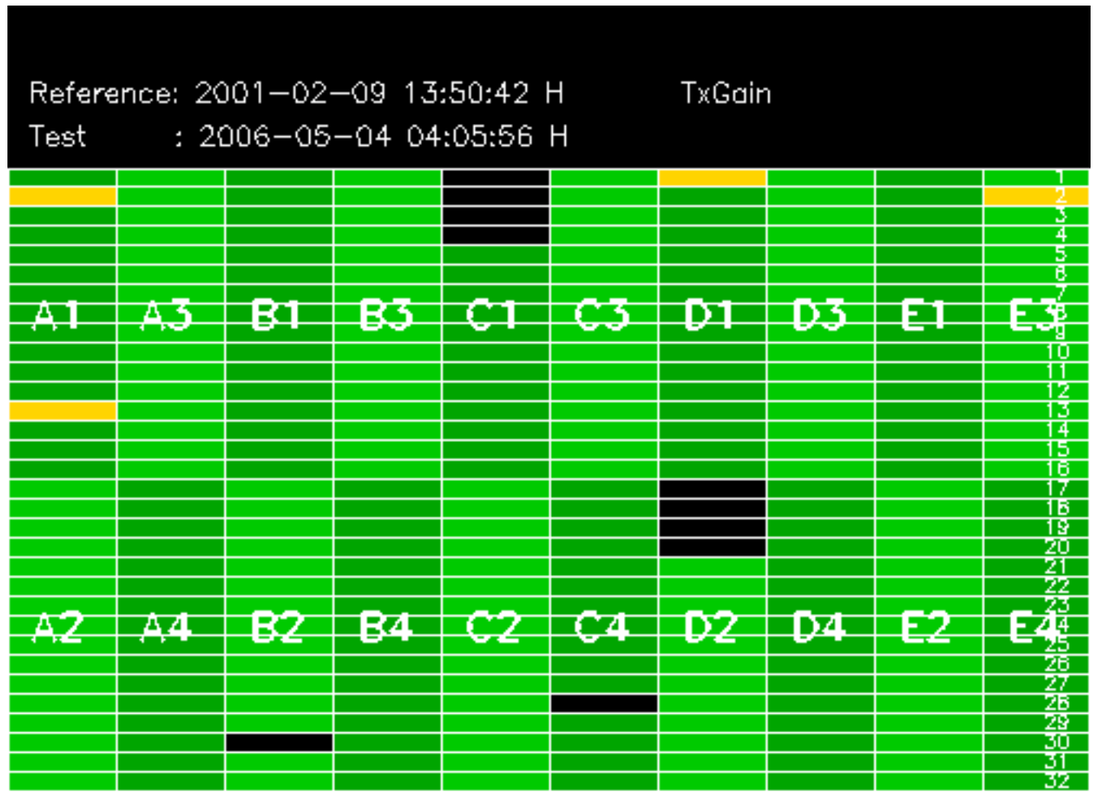

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
05−May


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
05−May


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
05−May


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
05−May


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
05−May


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-04 04:05:56 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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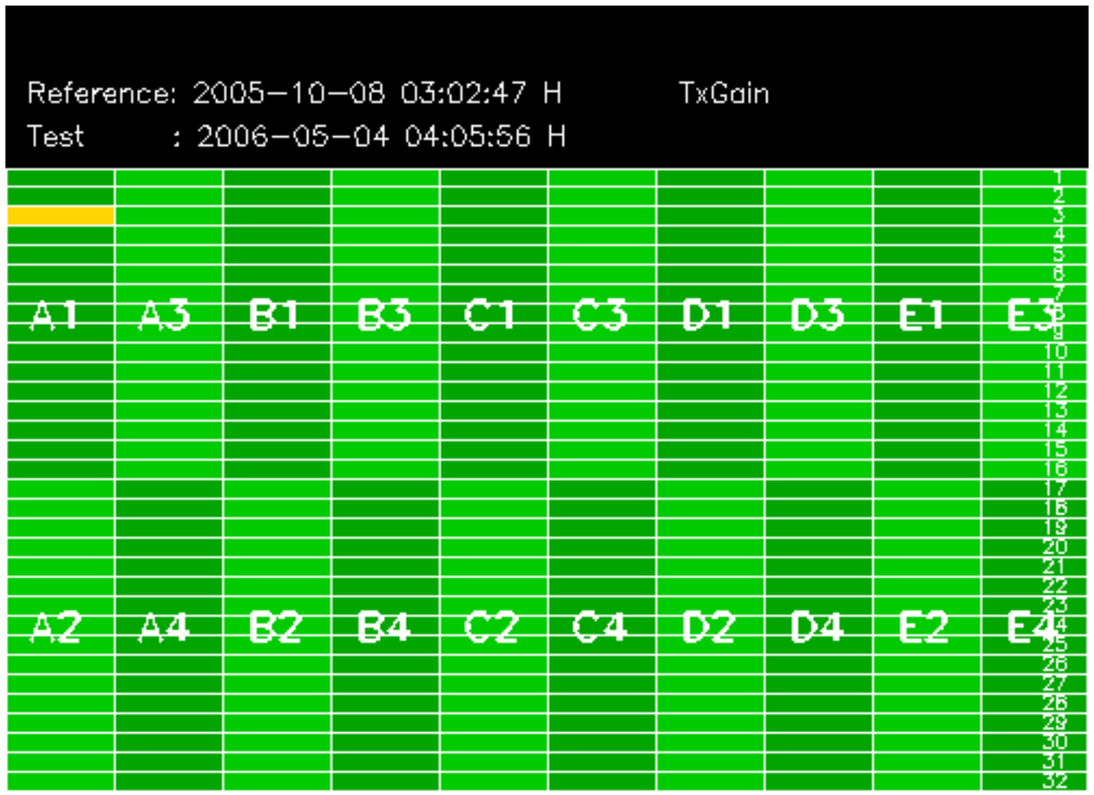
Reference: 2005-10-08 03:02:47 H
Test : 2006-05-04 04:05:56 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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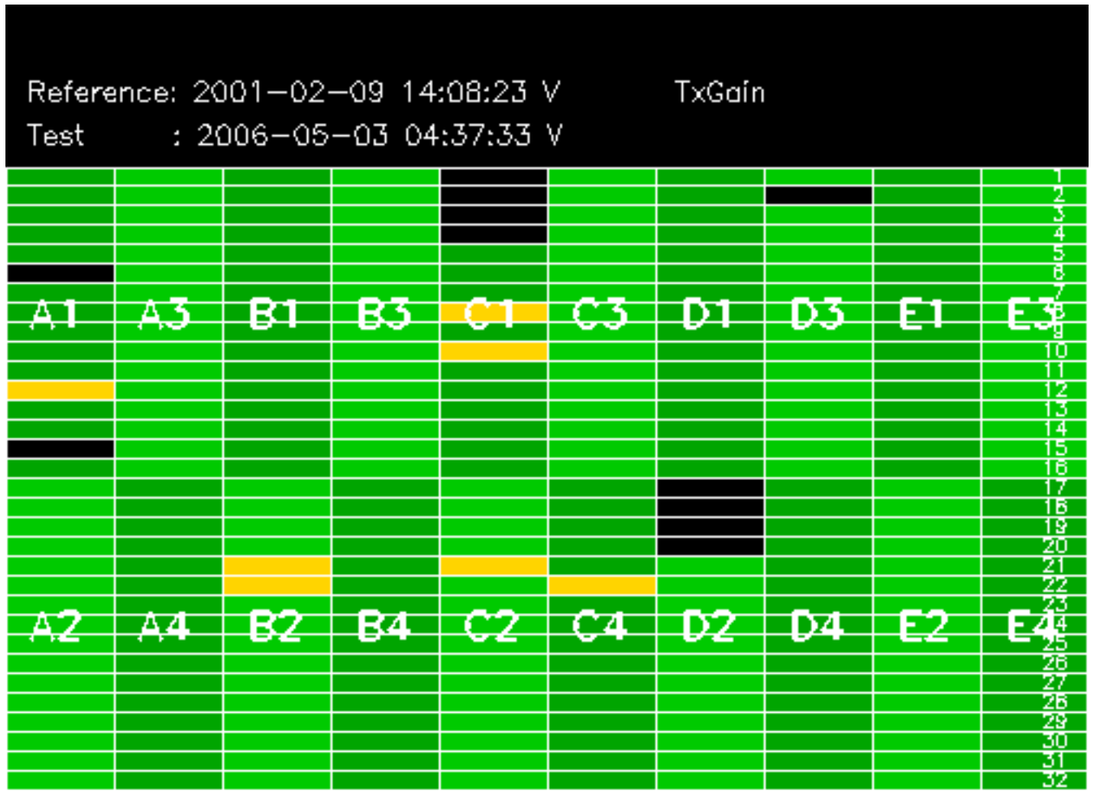
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-03 04:37:33 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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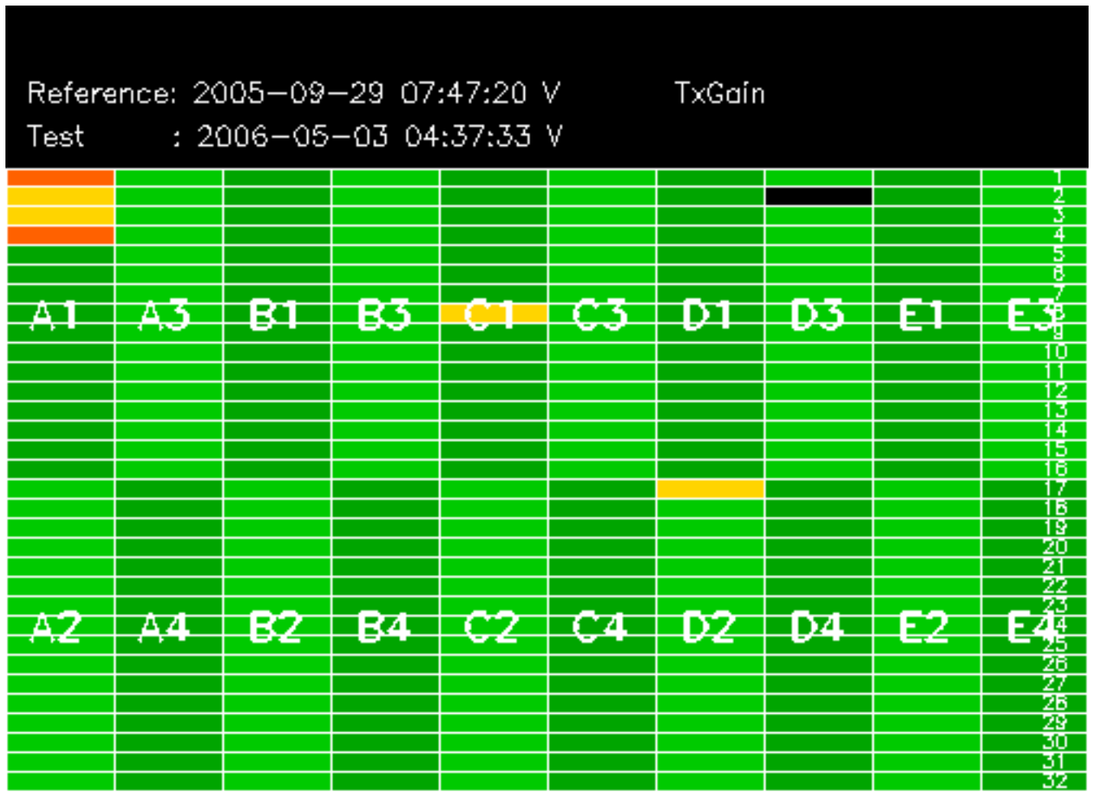
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-03 04:37:33 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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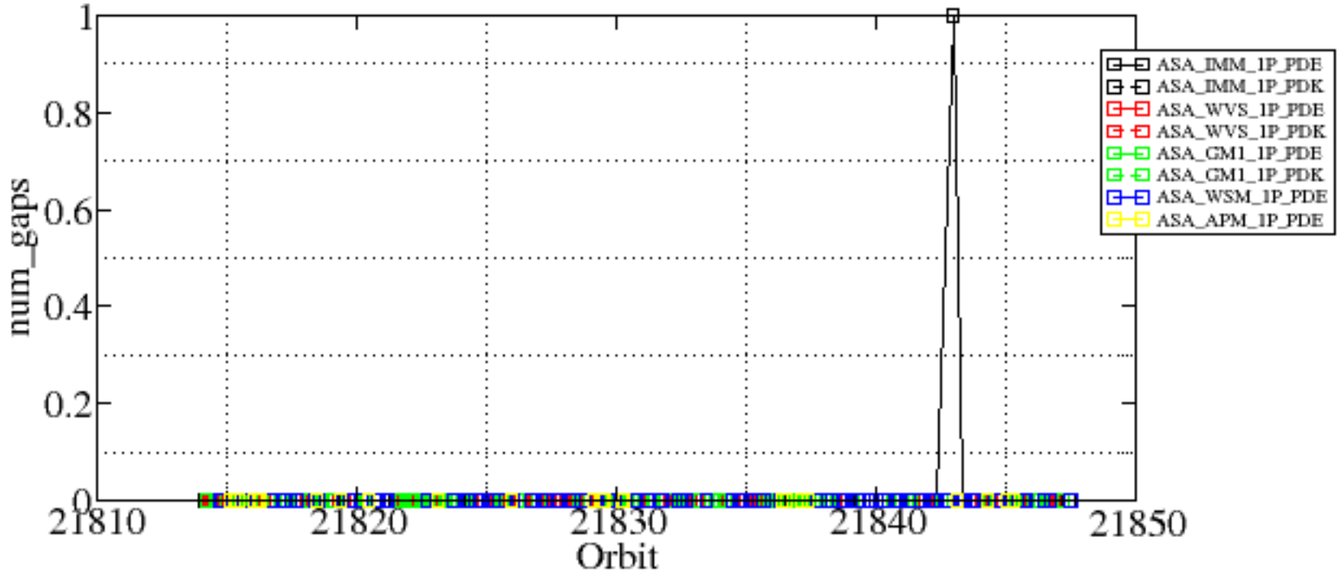
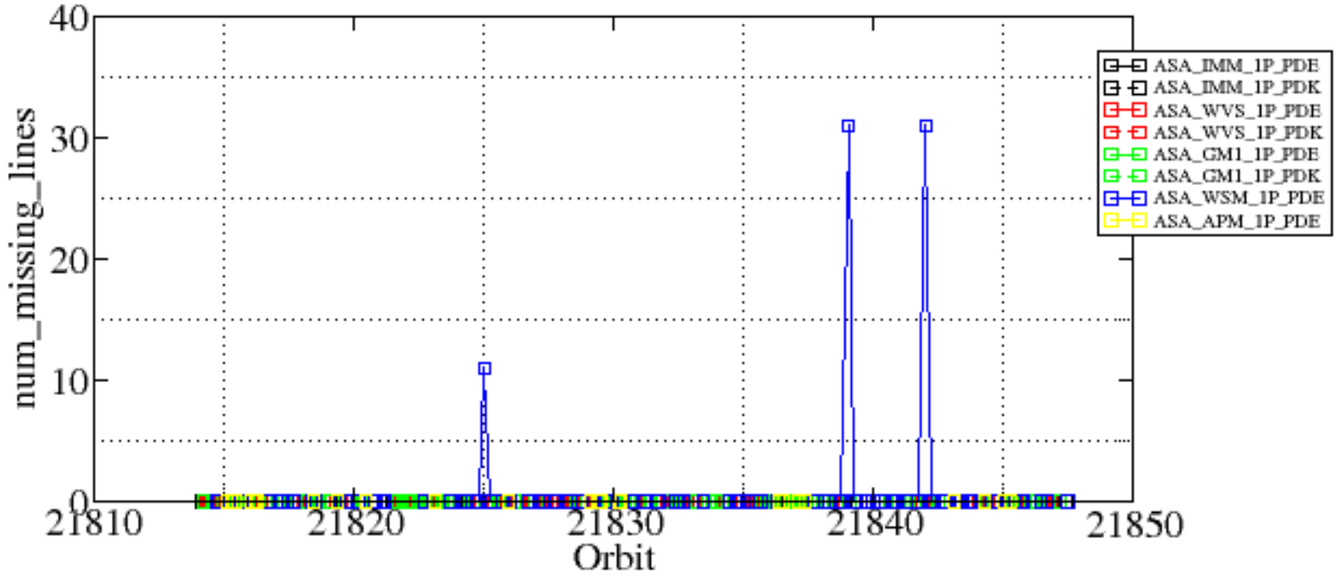
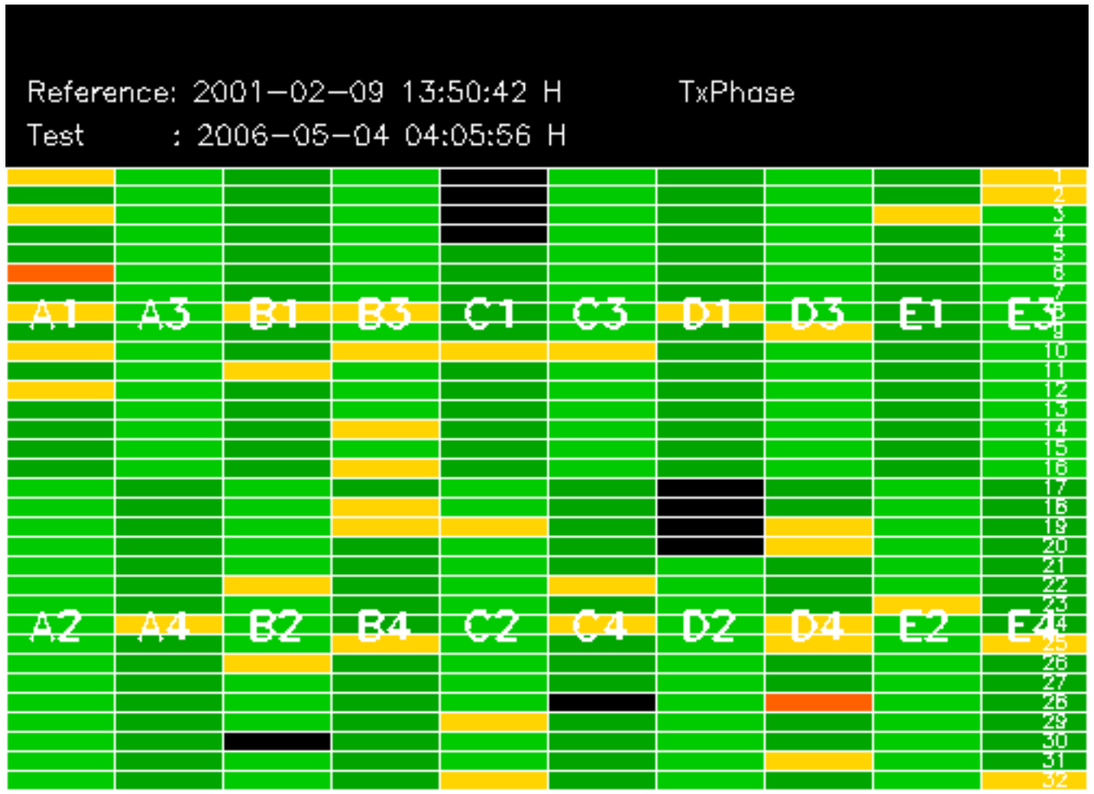
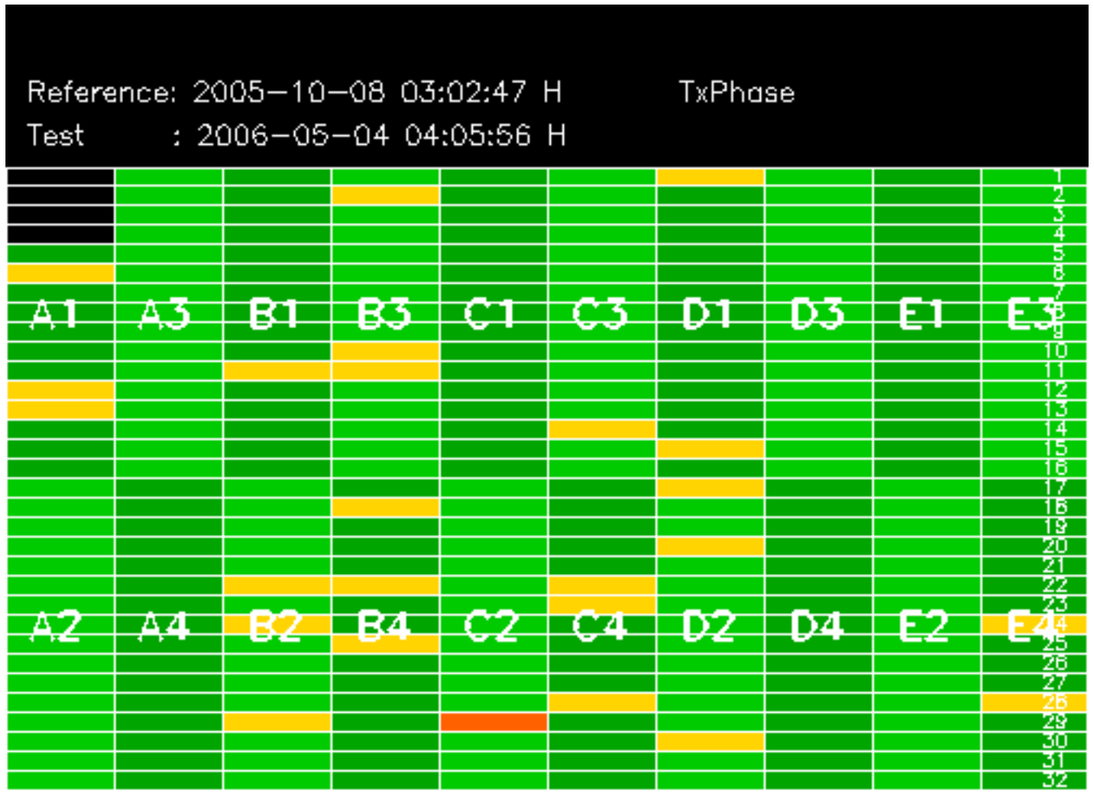
Summary of analysis for the last 3 days 2006050[345]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060505_004234_000001742047_00245_21842_4113.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060503_183927_000002262047_00228_21825_7761.N1 </td> <td>0 </td> <td>11 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060504_180901_000000862047_00242_21839_7952.N1 </td> <td>0 </td> <td>31 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060504_230834_000001222047_00245_21842_8010.N1 </td> <td>0 </td> <td>31 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
21810
21820
21830
21840
21850
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_APM_1P_PDE


num_missing_lines
40
30
20
10
0
21810
21820
21830
21840
21850
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_APM_1P_PDE


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-04 04:05:56 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-05-04 04:05:56 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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Reference: 2001-02-09 14:08:23 V
Test : 2006-05-03 04:37:33 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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31
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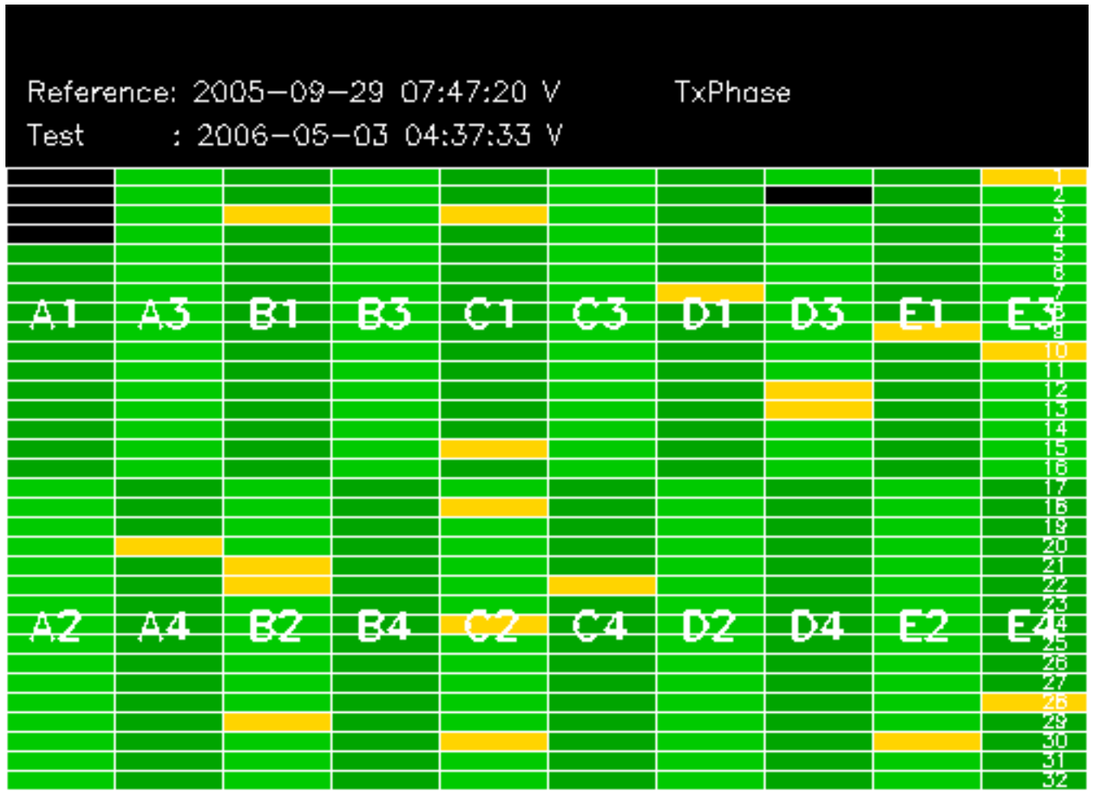
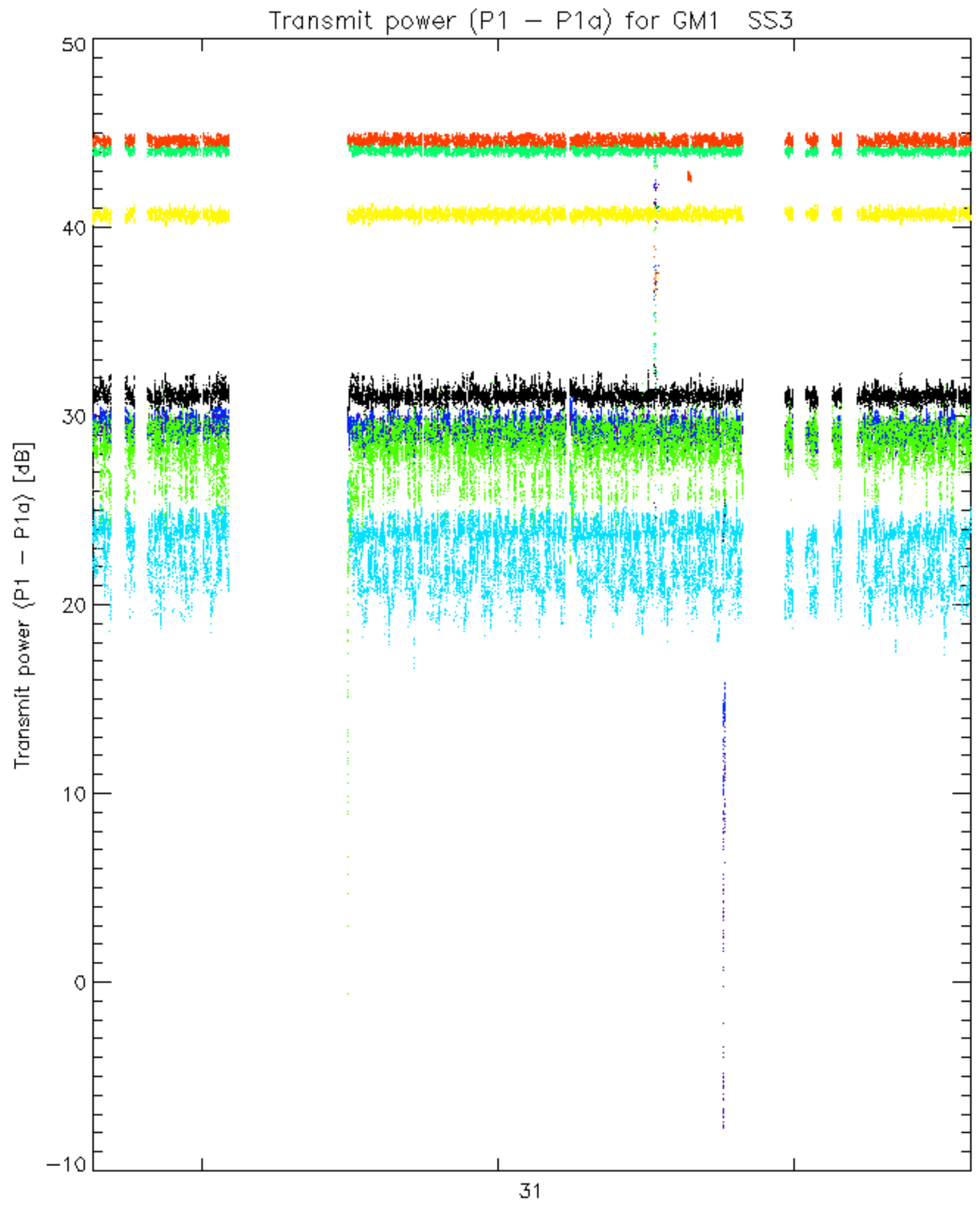
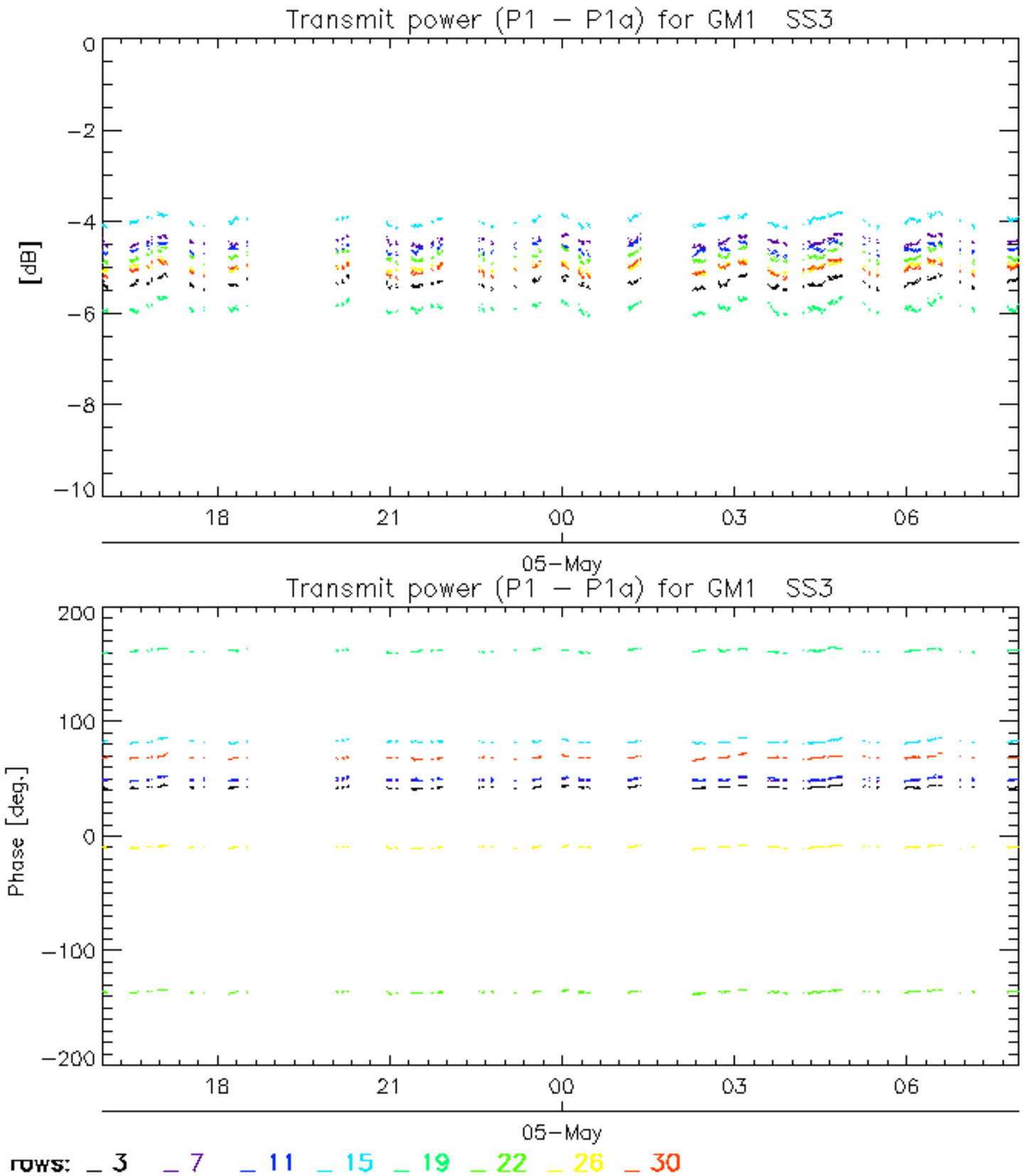
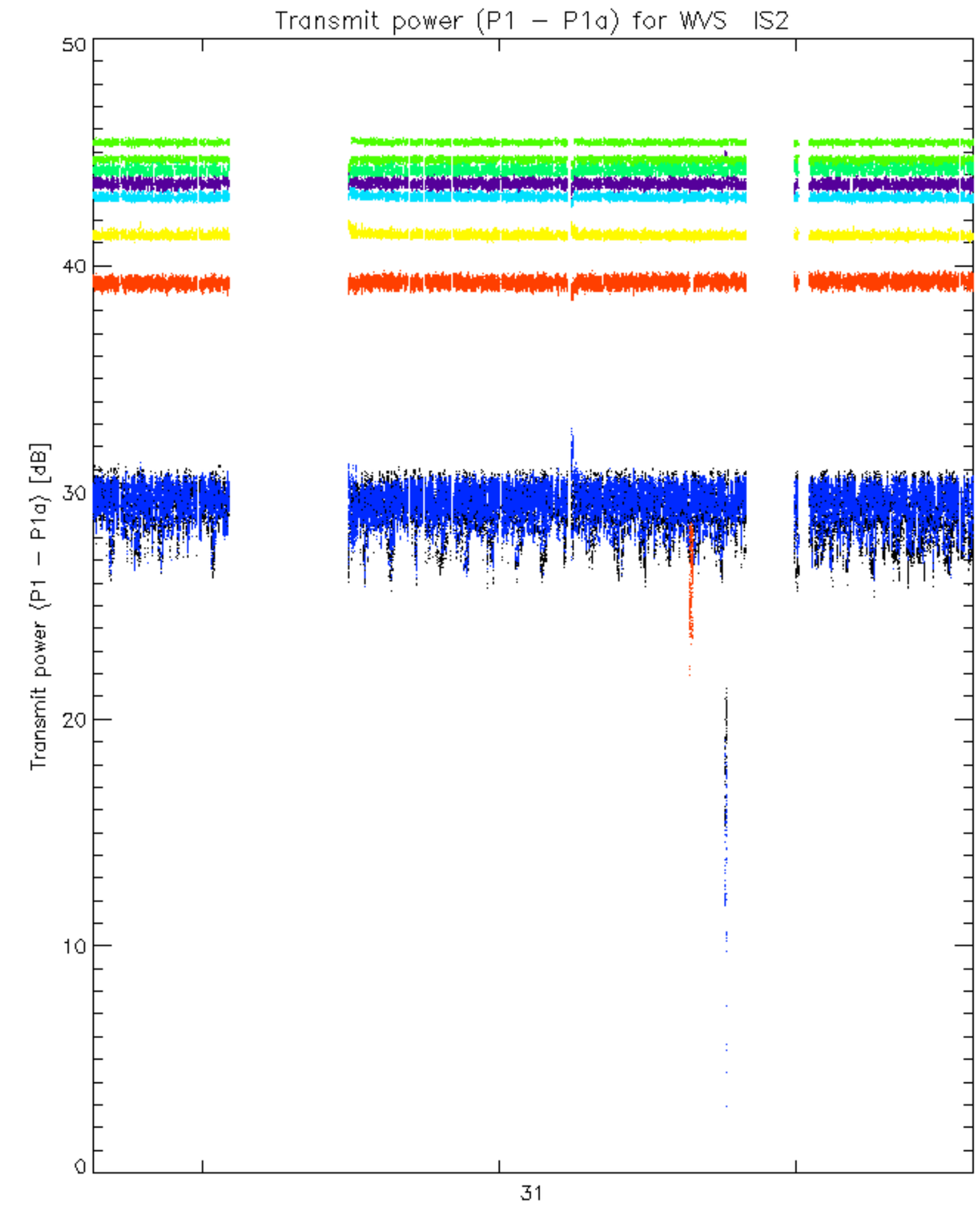
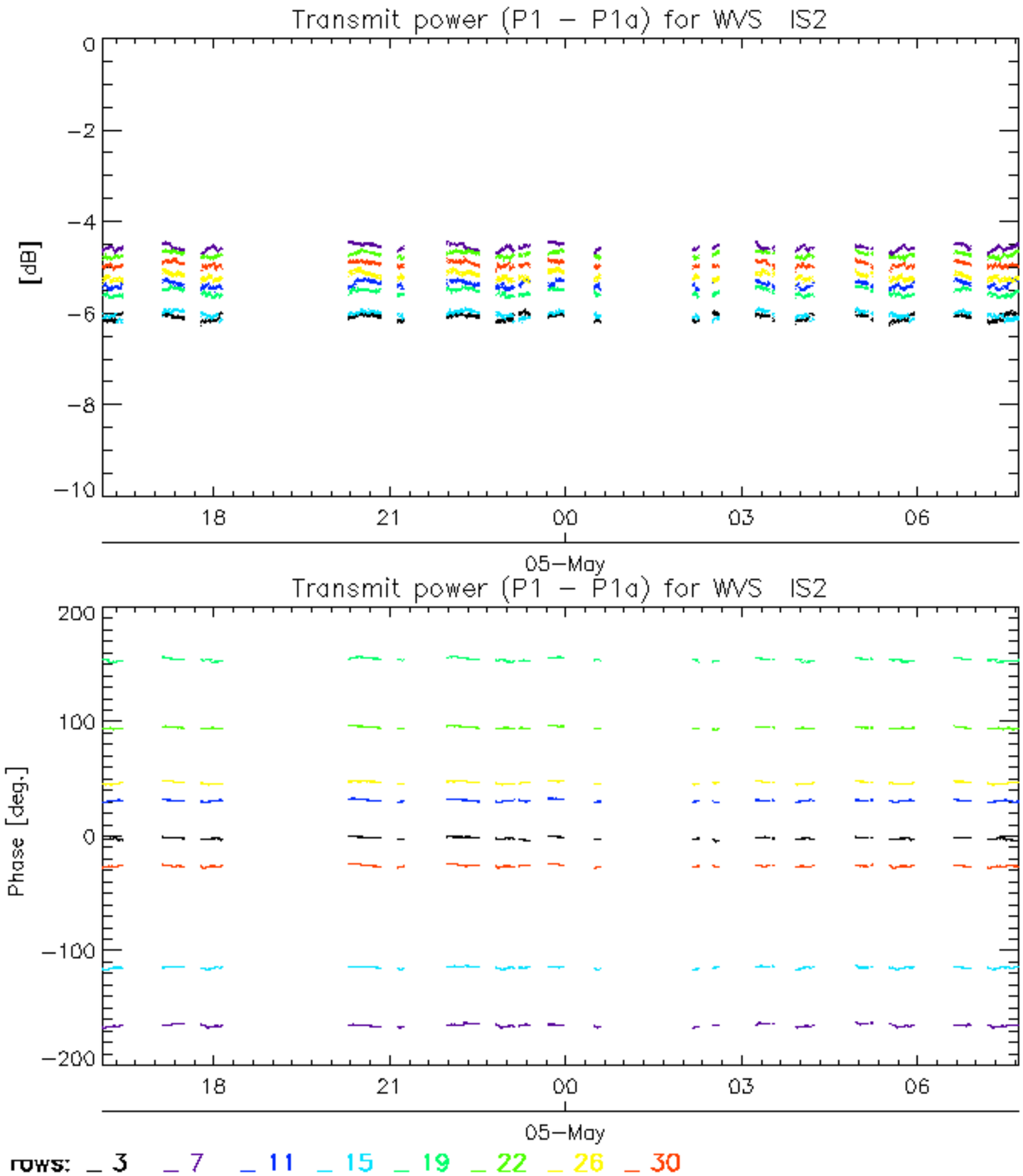

Reference: 2005-09-29 07:47:20 V
Test : 2006-05-03 04:37:33 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
31
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
05–May
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
05–May
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
31
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
05–May
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
05–May
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.